

# Technical Test – Practical Contents

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# Crawler Crane

A02

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Crawler crane</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Facilities for crane travel and parking</li> <li>• Flat area to allow lifting and placing of loads</li> <li>• Facilities for out-of-sight lifts to take place</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Measuring tape for measuring the maximum radius of the crane</li> <li>• Slinger and Signaller</li> <li>• Applicable lifting accessories for all loads</li> <li>• Radio communication</li> <li>• Items to create restrictions for manoeuvring</li> </ul>
Loads	<ul style="list-style-type: none"> <li>• <b>LOAD 1</b> 1 x load being a minimum 50% load at 75% of maximum radius of the crane</li> <li>• <b>LOAD 2</b> 1 x load being within the duties chart for 2 falls of rope</li> <li>• <b>LOAD 3</b> 1 x load being within the duties chart for 3 falls of rope</li> <li>• <b>LOAD 4</b> 1 x load being a tube or structure not less than 6 metres in length</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must meet the specification, be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the crane</li> <li>• Duties charts for the crane being used for the test must be available for use</li> <li>• The slinger and signaller must be certificated and competent</li> <li>• All lifting accessories must be fit for purpose and certificated</li> <li>• The weight of all loads must be known</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activities 6–11 can be undertaken in any order</li> <li>• Activities 9 and 11 may be incorporated during activities 6, 7 or 8</li> <li>• Activity 14 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the crane for travel
Travelling & manoeuvring (refer to specifications)	<ol style="list-style-type: none"> <li>2. Travel to the work area</li> <li>3. Manoeuvre through a restriction</li> </ol>
Setting up for work	<ol style="list-style-type: none"> <li>4. Prepare and set the crane for each lift</li> <li>5. Change the number of falls on the hook block from 3 to 2, to 2 to 3</li> </ol>
Working tasks (refer to specifications)	<ol style="list-style-type: none"> <li>6. Lift LOAD 1 which must be at 75% of maximum radius, and land at minimum radius at a designated place. Once landed, move back to at least 75% of maximum radius and then rotate for at least 360 degrees. Land the load at mid radius at a designated place</li> <li>7. Lift LOAD 3 using three falls of rope, rotate for at least 270 degrees and land at a designated place</li> <li>8. Lift LOAD 4 which must be at ground level and at minimum radius and rotate for a minimum of 360 degrees maintaining minimum radius. Land at a designated place</li> <li>9. Lift a load from a given point and land in a designated place out of sight of the candidate</li> <li>10. Lift LOAD 2 using two falls of rope from a designated position and travel with the load suspended for at least 10 metres. Whilst travelling, execute a 90 degree angle turn</li> <li>11. Recover simulated 2 metre load swings</li> </ol>
Completing work	<ol style="list-style-type: none"> <li>12. All loads to be made safe following each activity</li> <li>13. On completion of all lifting activities, configure the crane for travel</li> </ol>
Shutting down	14. Park the crane and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• The instructor must ensure that the candidate has programmed the RCI correctly before carrying out each activity</li> <li>• On activities 6, 7 and 8, the load must follow the ground contours and able to be handled by the slinger/signaller</li> <li>• Activity 11 shall consist of a minimum of 1 x swing in a left to right plane and a minimum of 1 x swing in a forward to reverse plane</li> <li>• Activity 9 must be undertaken twice – once using hand signals and once using radio communication. All other lifts may be undertaken using either radio or hand signals</li> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

### Activity measurements

Manoeuvring restriction	<ul style="list-style-type: none"><li>• Maximum of the width of the crane plus 800 mm</li></ul>
Load placing	<ul style="list-style-type: none"><li>• To be landed within 100 mm of a designated place</li></ul>
Load swing	<ul style="list-style-type: none"><li>• To be corrected within 3 moves</li></ul>
Test timings	<ul style="list-style-type: none"><li>• The test must be completed within 3 hours and 15 minutes</li></ul>



# Crawler Crane

# A02

## Technical Test – Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Crane set for travel		
	3 Restrictions cleared		
	4 Faced direction of travel		
Setting up	5 Encountered hazards cleared		
	6 Area checked and safe prior to setting up for lifting and depositing loads		
	7 Crane positioned prior to lifting loads		
	8 Ensured crane was level prior to lifting loads		
Working	9 RCI programmed for all lifting duties		
	10 Communication arrangements confirmed with the signaller		
	11 Hook blocked re-reeved to requested number of falls		
	12 Turntable locked/braked prior to travelling with a suspended load		
Completing	13 SWL not exceeded at all times		
	14 Load integrity and stability maintained at all times		
	15 Loads did not contact any obstructions		
	16 Lifted, moved and lowered all loads in a controlled manner		
Shutdown	17 Route assessed and travelled with the suspended load in a controlled manner		
	18 Instructions conformed with		
Other	19 Crane re-configured from lifting to travelling duties		
	20 Parked in appropriate place		
Other	21 All shut down and securing procedures		
	22 Legislation, manufacturers' and health and safety requirements complied with		
		23 Test completed within the given time	
<b>All of these items must be awarded</b>		Achieved / Not achieved	

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1 Crane mounting and dismounting			1	
	2 Full observation before moving and reversing (where applicable)			3	
	3 Full observation whilst travelling			2	
	4 Full observation before slewing the upper structure			2	
	5 Keeping drive sprockets to the rear when travelling			1	
	6 Keeping lifting accessories clear of the ground			1	
	7 Keeping load swings within 0.5 of a metre / rectify swinging			2	
Working	8 Placing all loads at the given points within the given tolerance			2	
	9 Lifting each load clear of surface and checking for integrity			2	
	10 Lifting all loads vertically			2	
	11 Sequence of using lifting controls			2	
	12 Smooth use of steering and lifting controls			1	
<b>Not exceeded 8 penalties</b>			Total penalties		
			Achieved / Not achieved		



# Tower Crane

A04

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Tower crane</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Flat surfaces to allow lifting and placing of loads</li> <li>• Structure of at least 5 metres in height within the working radius of the crane</li> <li>• Facilities for out-of-sight lifts to take place</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Measuring tape for measuring the full radius of the crane</li> <li>• Slinger and Signaller</li> <li>• Applicable lifting accessories for all loads</li> <li>• Radio communication</li> </ul>
Loads	<ul style="list-style-type: none"> <li>• <b>LOAD 1</b> 1 x load being at least 75% of the crane's rated capacity at full radius with 2 falls of rope</li> <li>• <b>LOAD 2</b> 1 x load being a tube or structure not less than 5 metres in length</li> <li>• <b>LOAD 3</b> 1 x load to facilitate activities 7 and 8</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The crane selected must be of an assisted-erect design and cab controlled with an under-hook height of at least 20 metres, meet the specification for the required endorsement, be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the crane</li> <li>• Full radius equates to the configuration of the crane being used for the test</li> <li>• The slinger and signaller must be certificated and competent</li> <li>• All lifting accessories must be fit for purpose and certificated</li> <li>• The weight of all loads must be known</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>Activity 1 must be undertaken at the start of the test</li> <li>Activities 3–8 can be undertaken in any order</li> <li>Activities 6, 7 and 8 may be incorporated with activities 3–5</li> <li>Activity 10 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-use checks and prepare the crane for work
Setting up for work	2 Prepare and set the crane for each lift
Working tasks (refer to specifications)	<p>3 Lift LOAD 1 which must be at least 90% of maximum radius, rotate for at least 180 degrees without changing radius before landing at minimum radius. On completion lift and land at a designated place at mid-radius</p> <p>4 Lift LOAD 1 which must be at mid-radius, rotate over the structure and land in a designated place using a minimum of 75% radius. On completion return the load to the original start point and land at designated place</p> <p>5 Lift LOAD 2 which must be at ground level and at minimum radius and rotate for a minimum of 360 degrees maintaining minimum radius. Land at a designated place</p> <p>6 Lift a load from a designated position, and land at a designated place out-of-sight of the candidate</p> <p>7 Simulate pouring a wall by travelling a load in a straight line for a distance of not less than 6 metres</p> <p>8 Recover simulated 2 metre load swings</p> <p>9 All loads to be made safe following each activity</p>
Shutting down	10 Place the crane in the out-of-service mode and carry out securing procedures
Notes	<ul style="list-style-type: none"> <li>The Tester must check that the candidate has programmed the RCI/LMI correctly before carrying out each activity</li> <li>On activities 5 and 7, the load must follow the ground contours and able to be handled by the slinger/signaller</li> <li>On activity 7, the line must be angled so that both slew and radius change functions are used simultaneously</li> <li>Activity 9 shall consist of a minimum of 1 x swing in a left to right plane and a minimum of 1 x swing in a forward to reverse plane</li> <li>Activity 6 must be undertaken twice – once using hand signals and once using radio communication. All other lifts may be undertaken using either radio or hand signals</li> <li>For the purpose of the test, all hand signals shall conform with BS 7121 Part 1:2006</li> </ul>

### ACTIVITY CONTINUED

#### Activity measurements

Load placing	<ul style="list-style-type: none"><li>• To be landed within 100 mm of a designated place</li></ul>
Load swing	<ul style="list-style-type: none"><li>• To be corrected within 3 moves</li></ul>
Test timings	<ul style="list-style-type: none"><li>• The test must be completed within 2 hours</li></ul>



# Tower Crane

A04

Technical Test - Practical

<b>Basic details</b>	Test reference	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Endorsement A <input type="checkbox"/> B <input type="checkbox"/>	Start time of test
	Make and model	Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
	2 All crane operations and limit switches checked		
Setting up	3 Area checked and safe prior to setting up for lifting and depositing loads		
	4 Jib positioning prior to lifting loads		
	5 RCI programmed for all lifting duties		
Working tasks	6 Communication arrangements confirmed with the signaller		
	7 SWL not exceeded at all times		
	8 Load integrity & stability maintained at all times		
	9 Loads did not contact any obstructions		
	10 Lifted, moved and lowered all loads in a controlled manner		
	11 All crane movements intentional		
	12 No shock loading		
	13 Combined control use demonstrated/straight line kept during concrete pour		
Shutdown	14 Instructions conformed with		
	15 Loads left in a safe situation		
Other	16 All shut down and securing procedures		
	17 Crane placed into free slew mode		
Other	18 Legislation, manufacturers' and health and safety requirements complied with		
	19 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Setting up	1 Crane climbing and descending			1	
	2 Full observation prior to moving loads fore and aft			2	
Working tasks	3 Full observation before slewing			2	
	4 Lifting accessories kept clear of the ground			1	
	5 Load swings kept within 0.5 of a metre / rectify swinging			2	
	6 Placing all loads at the given points within the given tolerance			2	
	7 Lifting each load clear of surface and checked for integrity			2	
	8 Lifting all loads vertically (maximum sway – 250 mm)			2	
	9 Landing all loads vertically (maximum sway – 250 mm)			2	
	10 Sequence of using controls			2	
	11 Smooth use of controls			1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Dragline

A05

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Dragline and bucket</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include:             <ul style="list-style-type: none"> <li>– level area for excavating and to accommodate 2 x spoil heaps</li> <li>– rough terrain</li> <li>– slope or slopes</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Load-carrying vehicle for spoil/material</li> <li>• Items to create restrictions for manoeuvring</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must meet the specification for the required endorsement, be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the dragline</li> <li>• The slope must have at least an 18% (1:5.5) incline with sufficient manoeuvring room at the top, or a straight ramp with an up and down route with a flat area at the summit</li> <li>• The nominated area must be safe to allow excavations up to 3 metres deep</li> <li>• The load carrying vehicle must have a minimum capacity equivalent to 8 full bucket loads of the dragline being used for the test</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>Activity 1 must be undertaken at the start of the test</li> <li>Activity 6 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the dragline for travel
Travelling & manoeuvring (refer to specifications)	2. Travel to the work area and: <ul style="list-style-type: none"> <li>– travel up and down the slope</li> <li>– pass through a restriction</li> <li>– travel over rough terrain</li> </ul>
Setting up for work	3. Prepare and set the dragline for the relevant work
Working tasks (refer to specifications)	4. Excavate soil and form two stockpiles 5. Load material into a vehicle
Shutting down	6. Park the dragline and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Travel restrictions	<ul style="list-style-type: none"> <li>800 mm</li> </ul>
Stockpile	<ul style="list-style-type: none"> <li>Minimum of 10 buckets loads each</li> </ul>
Loading vehicle	<ul style="list-style-type: none"> <li>Loaded to capacity</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>The test must be completed within 3 hours and 15 minutes</li> </ul>

# Dragline

A05

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Dragline set for travel		
	3 Restrictions cleared		
	4 Encountered hazards cleared		
	5 Jib and bucket position when ascending and descending inclines		
	6 Faced direction of travel whilst travelling		
Setting up	7 Allocated area checked and clear of hazards prior to excavating and loading		
Working	8 Dragline laterally level maintained during excavating		
	9 Full bucket loads maintained during excavating and loading		
	10 Loading vehicle and dragline position prior to loading		
	11 Vehicle evenly loaded but not overloaded		
Shutdown	12 Stockpiles conformed with given specification		
	13 All shut down and securing procedures		
Other	14 Legislation, manufacturers' and health and safety requirements complied with		
	15 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Dragline mounting and dismounting		1	
	2	Full observation before moving		2	
	3	Full observation whilst travelling		2	
	4	Observation before slewing upper structure		2	
	5	Keeping drive sprockets to the rear when travelling		1	
	6	Matching travel speed to the ground type and conditions		1	
	7	Avoiding tight turns when travelling (tracked machines only)		1	
Working	8	Positioning and setting for excavating		2	
	9	Excavating in layers		2	
	10	Placing material cleanly into the loading vehicle		1	
	11	Avoiding contact with vehicle when loading		2	
	12	Use of steering/hydraulic controls		2	
<b>Not exceeded 8 penalties</b>			Total penalties		
			Achieved / Not achieved		



# Concrete Pump

Truck Mounted Boom

**A06**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Truck mounted boom concrete pump</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include:             <ul style="list-style-type: none"> <li>– place to receive poured material</li> <li>– wash-out point</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Pipe sections, taper and bends, including incorrect sized versions</li> <li>• Ground lines with couplings, seals, packing and anchors</li> <li>• Pipe cleaning equipment</li> <li>• Supply of pumpable material</li> <li>• Structure of at least 3 metres in height</li> <li>• Signaller assistance</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must have all controls clearly marked, be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the vehicle</li> <li>• A pipeline specification must be constructed for the activity, requiring a pipe length of at least 15 metres</li> <li>• Couplings must be fitted with locking facilities</li> <li>• The pumpable material must be deposited into the hopper from a self-propelled vehicle i.e. mixer</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activities 2 to 10 to follow the described sequence</li> <li>• Activity 2 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the truck for travel
Travelling & manoeuvring (refer to specifications)	2. Travel to the work area.
Setting up for work	3. Site the truck and prepare for the relevant work following the given pipeline specification 4. Line the pipes and placing hoses with suitable grout 5. Direct the material-carrying vehicle into position
Working tasks (refer to specifications)	6. Pump the material to the pour location whilst following signals 7. Whilst pumping material, the boom must change radius whilst keeping the end of the hose at a constant height 8. Stop and restart the pour during work
Completing work	9. Clean all pumping system components 10. Dismantle and store all components and prepare the truck for travel
Shutting down	11. Park the truck and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• The boom must be placed over the structure</li> <li>• The unfolding of the boom and extension to the pour point to be undertaken following given signals</li> <li>• A DVLA issued driving licence bearing class C must be held by the candidate prior to the test taking place</li> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Pumping duration	<ul style="list-style-type: none"> <li>• Minimum of 15 minutes</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 2 hours and 15 minutes or until the pour has been completed</li> </ul>

# Concrete Pump

A06

Truck Mounted Boom

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Restrictions cleared		
	3 Truck set for travel		
	4 Travel route checked for safe travelling		
Setting up	5 Encountered hazards cleared		
	6 Allocated area checked and clear of hazards prior to pumping		
	7 Vehicle level and secured prior to pumping		
	8 Outriggers set for pumping duties (as applicable)		
	9 Axle(s) restrained (as applicable)		
	10 Relevant piping selected		
	11 Boom extended to work area avoiding hazards and structures		
	12 Couplings compatible with, connected and locked to piping		
	13 Flexible piping checked for condition		
	14 Piping anchored, supported and secured		
	15 Pipeline conformed with specifications		
Working	16 Pump engaged following required sequence		
	17 Pump function checked		
	18 Pipeline grouted and lubricated with appropriate mix		
	19 Mix conformed with specification		
Completing	20 Material pumped to required location at the desired time		
	21 Waste material disposed of following guidelines and regulations		
Shutting	22 All components dismantled and stored		
	23 All shut down and securing procedures		
Other	24 Legislation, manufacturers' and health and safety requirements complied with		
	25 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Truck mounting and dismounting		1	
	2	Full observation before moving and reversing		3	
	3	Full observation whilst travelling		2	
	4	Full observation before and during boom extending		2	
	5	Matching vehicle travel speed to ground and environmental conditions		1	
Working	6	Positioning material carrying vehicle to allow unloading of material		3	
	7	Following signaller's instructions		2	
	8	Cleaning components and vehicle thoroughly after use		2	
	9	Sequence of using hydraulic/lifting controls		2	
	10	Smooth use of steering/braking and hydraulic controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Forward Tipping Dumper

A09

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Forward tipping dumper with: <ul style="list-style-type: none"> <li>– a seatbelt and ROPS</li> <li>– hydraulic operated transmission (i.e. shuttle, hydrostatic or powershift)</li> </ul> </li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include: <ul style="list-style-type: none"> <li>– rough undulating terrain</li> <li>– slope or slopes</li> <li>– a stockpile of material for loading</li> <li>– a straight run for reversing</li> <li>– trench or edge for unloading purposes</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Machine to load the material</li> <li>• Edge protection</li> <li>• Items to create restrictions for travelling and manoeuvring</li> </ul>
Loads	<ul style="list-style-type: none"> <li>• Suitable and sufficient material for loading and discharging</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must be of at least 2 tonnes capacity, meet the specification for the required endorsement, be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the dumper</li> <li>• The slope must have at least an 18% (1:5.5) incline with sufficient manoeuvring room at the top, or a straight ramp with an up and down route with a flat area at the summit</li> <li>• The straight run for reversing must be at least 30 metres long</li> <li>• The trench or an edge must be at least 1 x metre deep and a minimum of 3 x the machine's width</li> <li>• Edge protection must be of substantial build to restrain a machine from inadvertently entering the trench</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activity 2 may be spread over the period of the test</li> <li>• Activity 7 must be undertaken at the end of the test</li> </ul> <p>Certain activities (The test) must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the dumper for travel
Travelling & manoeuvring (refer to specifications)	2. In a loaded and unloaded state: <ul style="list-style-type: none"> <li>– travel up and down the slope</li> <li>– stop and start on the slope in the up direction</li> <li>– stop and start on the slope in the down direction</li> <li>– pass through a chicane executing full right- and left-hand turns in a forward and reverse direction (unloaded only)</li> <li>– travel over rough terrain</li> <li>– reverse (loaded only) in a straight line for a minimum of 30 metres and pass through a restriction at the end of the run</li> </ul>
Setting up for work	3. Position the dumper for loading
Working tasks (refer to specifications)	4. Receive a load 5. Discharge the load into the edge or excavation
Completing work	6. Clean out the skip fully
Shutting down	7. Park the dumper and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Travelling and reversing restriction	<ul style="list-style-type: none"> <li>• 500 mm</li> </ul>
Discharging	<ul style="list-style-type: none"> <li>• Minimum of 3 times (activity 5)</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 1 hour and 15 minutes</li> </ul>

# Forward Tipping Dumper

**A09**

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Endorsement A <input type="checkbox"/> Endorsement B <input type="checkbox"/>	Start time of test
	Make and model	Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Dumper set for travel		
	3 Seat belt worn		
	4 Restrictions cleared		
	5 Encountered hazards cleared		
	6 Full control maintained when ascending and descending slopes		
	7 No opposite movement of intended direction when restarting on slopes		
	8 Travel direction on slopes		
Setting up	9 Straight line kept for loaded reversing activity		
	10 Allocated area checked and clear of hazards prior to being loaded		
Working	11 Safe place selected during loading		
	12 Appropriate speed used when approaching discharge point		
	13 Edge protection applied or checked and used prior to discharging load		
	14 Parking brake applied and neutral selected before discharging loads		
	15 Vehicle marginally reversed after discharging to clear body		
Completing	16 Skip fully lowered before leaving discharging point		
	17 Skip cleaned of material		
Shutdown	18 All shut down and securing procedures		
Other	19 Legislation, manufacturers' and health and safety requirements complied with		
	20 Activities (test) completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Dumper mounting and dismounting		1	
	2	Full observation before moving and reversing		3	
	3	Full observation whilst travelling		2	
	4	Engaging transmission drive smoothly from rest		1	
	5	Matching travel speed to the ground type and conditions		2	
	6	Matching gear ratios to ground speed		1	
Working	7	Dumper positioning for loading		2	
	8	Dumper positioning square to the discharge edge prior to discharging		2	
	9	Skip fully empty after discharging		2	
	10	Smooth use of steering and braking controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Excavator 180

A10

Below 5 tonne

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• 180 Excavator with: <ul style="list-style-type: none"> <li>– standard excavating buckets on the loader and backhoe</li> </ul> </li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include: <ul style="list-style-type: none"> <li>– level area for excavating</li> <li>– rough undulating terrain</li> <li>– slope or slopes</li> <li>– spoil/material to load vehicles</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Load-carrying vehicle for spoil/material</li> <li>• A replacement backhoe bucket (for changing task)</li> <li>• Items to create restrictions for manoeuvring</li> <li>• Laser equipped measuring equipment to ensure trench specifications are met</li> <li>• Lifting accessories for the load to be lifted</li> <li>• Measuring tape for measuring the maximum (backhoe) radius of the excavator</li> <li>• Slinger and signaller assistance</li> </ul>
Loads	<ul style="list-style-type: none"> <li>• 1 x load, able to be slung and weighing approximately 0.3 tonne</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the excavator</li> <li>• The incline must have at least an 18% (1:5.5) incline with sufficient manoeuvring room at the top, or a straight ramp with an up and down route with a flat area at the summit</li> <li>• The nominated area must be safe to allow excavations up to 2 metres deep</li> <li>• The load carrying vehicle must have a minimum capacity equivalent to 6 full (front) bucket loads of the excavator being used for the test</li> <li>• All lifting accessories must be fit for purpose and certificated</li> <li>• The weight of the load must be known</li> <li>• Manufacturer's data must be checked to ensure the machine is capable of lifting the specified load to the required radius</li> <li>• The slinger and signaller must be certificated and competent</li> </ul>

## ACTIVITY

### Instructions

Sequence	<ul style="list-style-type: none"> <li>Activity 1 must be undertaken at the start of the test</li> <li>Activities 2 and 4 to 7 can be undertaken at any time during the test</li> <li>Activity 9 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the excavator for travel
Travelling & manoeuvring (refer to specifications)	2. Travel to the work area and: <ul style="list-style-type: none"> <li>– travel up and down the slope</li> <li>– pass through a restriction in forward and reverse</li> <li>– travel over rough terrain</li> </ul>
Setting up for work	3. Prepare and set the excavator for the relevant work
Working tasks (refer to specifications)	4. Produce 2 x straight trenches in a 'T' pattern with square starts and finishes 5. Load material into a vehicle 6. Change the (backhoe) bucket 7. Lift the load from minimum radius, position the load at 75% of full radius and rotate for 180 degrees. On completion land the load at a given point and detach 8. Reinststate the work area back to the original using all the function of the multi-purpose bucket
Shutting down	9. Park the excavator and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>For activity 5, at least four loads must be placed by the backhoe, which can be loaded whilst excavating the trenches. The remaining capacity to be loaded with the front loader using spoil from the stockpile</li> <li>The backhoe must be used for activity 7</li> <li>If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

### Activity measurements

Travel restrictions	<ul style="list-style-type: none"> <li>500 mm</li> </ul>
Trenches depth	<ul style="list-style-type: none"> <li>0.8 metre ±35mm</li> </ul>
Trenches lengths	<ul style="list-style-type: none"> <li>5 metres and 3 metres</li> </ul>
Load movement	<ul style="list-style-type: none"> <li>Maximum height of underside of the load = 1 metre</li> </ul>
Load placing	<ul style="list-style-type: none"> <li>100 mm of a given position</li> </ul>
Loading vehicle	<ul style="list-style-type: none"> <li>Loaded to capacity</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>The test must be completed within 2 hours and 45 minutes</li> </ul>

# Excavator 180

A10

Below 5 tonne

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Excavator set for travel		
	3 Restrictions cleared		
	4 Encountered hazards cleared		
	5 Travel direction on slopes		
	6 Full control maintained when travelling on slopes		
Setting up	7 Allocated area checked and clear of hazards prior to each activity		
Working	8 Excavator laterally level whilst excavating		
	9 Excavated material clear of trench		
	10 Trenches conformed to the stated sizes and tolerances		
	11 Full bucket loads when excavating (except for finishing work) and loading		
	12 Loading vehicle and excavator position prior to loading		
	13 Vehicle evenly loaded but not overloaded		
	14 Excavator stability maintained		
	15 Existing bucket removed and replacement bucket installed		
	16 Excavator position prior to lifting loads		
	17 SWL not exceeded at all times		
	18 Lifted, moved and lowered load in a controlled manner		
	19 Stability of the machine maintained at all times		
	20 Excavated area reinstated back to the original state		
Shutdown	21 All shut down and securing procedures		
Other	22 Legislation, manufacturers' and health and safety requirements complied with		
	23 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Excavator mounting and dismounting		1	
	2	Full observation before moving and reversing		2	
	3	Maintaining full observation whilst travelling and reversing		3	
	4	Matching travel speed to the ground type and conditions		1	
	5	Selecting appropriate gear ratios		1	
	6	Front loader low but clear of ground when travelling		2	
	7	Boom and dipper extension locked		2	
	8	Positioning and setting for excavating		2	
Working	9	Excavating trenches in layers		1	
	10	Sideswiping with the bucket		1	
	11	Edges of the excavations clean and clear		2	
	12	Placing material cleanly into the loading vehicle		1	
	13	Not using front loader below ground level when loading		2	
	14	Minimising contact with vehicle when loading		3	
	15	Load placing within given tolerances		2	
	16	Keeping load height within given tolerance		1	
	17	Smooth use of steering, hydraulic, braking and transmission controls		2	
<b>Not exceeded 8 penalties</b>				Total penalties	
					Achieved / Not achieved



# Excavator 180

A12

Above 5 tonne

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• 180 Excavator with:             <ul style="list-style-type: none"> <li>– a standard excavating bucket on the backhoe</li> <li>– multi-purpose (clamshell) loader bucket</li> </ul> </li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include:             <ul style="list-style-type: none"> <li>– level area for excavating</li> <li>– rough undulating terrain</li> <li>– slope or slopes</li> <li>– spoil/material to load vehicles</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Load-carrying vehicle for spoil/material</li> <li>• A replacement backhoe bucket (for changing task)</li> <li>• Items to create restrictions for manoeuvring</li> <li>• Laser equipped measuring equipment to ensure trench specifications are met</li> <li>• Lifting accessories for the load to be lifted</li> <li>• Measuring tape for measuring the maximum (backhoe) radius of the excavator</li> <li>• Slinger and signaller assistance</li> </ul>
Loads	<ul style="list-style-type: none"> <li>• 1 x load, able to be slung and weighing between 0.6 tonne and 1.0 tonne or 75% of the rated capacity at full reach (excluding the extending dipper), whichever is the greater</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the excavator</li> <li>• The incline must have at least an 18% (1:5.5) incline with sufficient manoeuvring room at the top, or a straight ramp with an up and down route with a flat area at the summit</li> <li>• The nominated area must be safe to allow excavations up to 2 metres deep</li> <li>• The load-carrying vehicle must have a minimum capacity equivalent to 6 full bucket loads of the excavator being used for the test and be rear-tipping for front loader work only</li> <li>• All lifting accessories must be fit for purpose and certificated</li> <li>• The weight of the load must be known</li> <li>• Manufacturer's data must be checked to ensure the machine is capable of lifting the specified load to the required radius</li> <li>• The slinger and signaller must be certificated and competent</li> </ul>

## ACTIVITY

### Instructions

Sequence	<ul style="list-style-type: none"> <li>Activity 1 must be undertaken at the start of the test</li> <li>Activities 2 and 4 to 7 can be undertaken at any time during the test</li> <li>Activity 9 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the excavator for travel
Travelling & manoeuvring (refer to specifications)	2. Travel to the work area and: <ul style="list-style-type: none"> <li>travel up and down the slope</li> <li>pass through a restriction in forward and reverse</li> <li>travel over rough terrain</li> </ul>
Setting up for work	3. Prepare and set the excavator for the relevant work
Working tasks (refer to specifications)	4. Produce 4 x equal length vertical trenches at right angles to form a square, to the specified dimensions 5. Load material into a vehicle 6. Change the (backhoe) bucket 7. Lift the load from minimum radius, position the load at 75% of full radius and rotate for 180 degrees. On completion land the load at a given point and detach 8. Reinststate the work area back to the original using all the functions of the multi-purpose bucket
Shutting down	9. Park the excavator and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>For activity 5, at least four loads must be placed by the backhoe, which can be loaded whilst excavating the trenches. The remaining capacity to be loaded with the front loader using spoil from the stockpile</li> <li>The backhoe must be used for activity 7</li> <li>If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

### Activity measurements

Travel restrictions	<ul style="list-style-type: none"> <li>800 mm</li> </ul>
Trench depth	<ul style="list-style-type: none"> <li>1.0 metre ±35mm</li> </ul>
Trench length	<ul style="list-style-type: none"> <li>6 metres</li> </ul>
Load movement	<ul style="list-style-type: none"> <li>Maximum height of underside of the load = 1 metre</li> </ul>
Load placing	<ul style="list-style-type: none"> <li>100 mm of a given position</li> </ul>
Loading vehicle	<ul style="list-style-type: none"> <li>Loaded to capacity</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>The test must be completed within 3 hours</li> </ul>

# Excavator 180

A12

Above 5 tonne

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Excavator set for travel		
	3 Restrictions cleared		
	4 Encountered hazards cleared		
	5 Travel direction on slopes		
	6 Full control maintained when travelling on slopes		
Setting up	7 Allocated area checked and clear of hazards prior to each activity		
Working	8 Excavator laterally level whilst excavating		
	9 Excavated material clear of trench		
	10 Trenches conformed to the stated sizes and tolerances		
	11 Full bucket loads when excavating (except for finishing work) and loading		
	12 Loading vehicle and excavator position prior to loading		
	13 Vehicle evenly loaded but not overloaded		
	14 Functions of the multi-purpose (clamshell) bucket		
	15 Excavator stability maintained		
	16 Existing bucket removed and replacement bucket installed		
	17 Excavator position prior to lifting loads		
	18 SWL not exceeded at all times		
	19 Lifted, moved and lowered load in a controlled manner		
	20 Stability of the machine maintained at all times		
	21 Excavated area reinstated back to the original state		
Shutdown	22 All shut down and securing procedures		
Other	23 Legislation, manufacturers' and health and safety requirements complied with		
	24 Test completed within the given time		
<b>All of these items must be awarded</b>		Achieved / Not achieved	

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Excavator mounting and dismounting		1	
	2	Full observation before moving and reversing		3	
	3	Maintaining full observation whilst travelling and reversing		2	
	4	Matching travel speed to the ground type and conditions		1	
	5	Selecting appropriate gear ratios		1	
	6	Front loader low but clear of ground when travelling		2	
	7	Boom and dipper extension locked		2	
	8	Positioning and setting for excavating		1	
Working	9	Excavating trench in layers		1	
	10	Sideswiping with the bucket		2	
	11	Edges of the excavations clean and clear		1	
	12	Placing material cleanly into the loading vehicle		2	
	13	Not using front loader below ground level when loading		2	
	14	Minimising contact with vehicle when loading		2	
	15	Load placing within given tolerances		2	
	16	Keeping load height within given tolerance		1	
	17	Smooth use of steering, hydraulic, braking and transmission controls		2	
<b>Not exceeded 8 penalties</b>			Total penalties		
			Achieved / Not achieved		



# Rough Terrain Forklift

A14

Masted

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Rough terrain masted forklift with:             <ul style="list-style-type: none"> <li>– a seatbelt , ROPS and FOPS units</li> <li>– standard forks</li> <li>– rough terrain capability</li> </ul> </li> </ul>
Area	<ul style="list-style-type: none"> <li>• Flat surface for travelling on and for placing/stacking loads</li> <li>• Clear straight run not less than 10 metres in length</li> <li>• Rough undulating terrain</li> <li>• Slope or slopes</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Truck bed fitted with a headboard</li> <li>• Loading-out tower built out of scaffolding, either tube and fitting or system (quick lock), that meets current legislation</li> <li>• Items to create restrictions for manoeuvring</li> </ul>
Loads	<ul style="list-style-type: none"> <li>• <b>LOAD 1</b> 1 x load at least 50% of the rated capacity of the forklift</li> <li>• <b>LOAD 2</b> 3 x same-sized loads (on pallets) for stacking purposes</li> <li>• <b>LOAD 3</b> A wide load at least 4 metres in length</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the forklift</li> <li>• The weight of all loads must be known</li> <li>• The truck bed can be simulated but <b>must</b> conform to road haulage standard specifications, including the ground/bed height</li> <li>• The slope must have at least an 18% (1:5.5) incline with sufficient manoeuvring area at the top, or a straight ramp with an up and down route with a flat area at the summit</li> <li>• The high level load-placing must be at least 75% of the forklift's full rated height</li> <li>• Items for LOAD 2 must be safe for stacking</li> </ul>

## Instructions

Sequence	<ul style="list-style-type: none"> <li>Activity 1 must be undertaken at the start of the test</li> <li>Activities 2–8 can be undertaken in any order</li> <li>Activity 8 may be incorporated during activities 4–9</li> <li>Activity 10 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the forklift for travel
Travelling & manoeuvring (refer to specifications)	<p>2 In an unladen state and with LOAD 1, pass through a chicane executing full right- and left-hand turns in a forward and reverse direction</p> <p>3 With LOAD 3, reverse with a load in a straight line for at least 15 metres and pass through a restriction at the end of the run</p>
Setting up for work	4 Prepare and set the forklift for each lift
Working tasks (refer to specifications)	<p>5 Lift and place LOAD 1 onto the tower. When placed, move the forklift away from the tower. Then retrieve the load, lower to ground level and place at a given point</p> <p>6 Lift and place 3 x LOAD 2 onto the truck bed. On completion, remove all loads from the truck bed</p> <p>7 Stack 3 x LOAD 2 vertically on top of one another. On completion, de-stack all of LOAD 2 and place alongside each other in a straight line</p> <p>8 Carry out undercutting by both lifting and placing a load</p>
Completing work	9 All loads to be placed at ground level following completion of each activity
Shutting down	10 Park the forklift and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>The forks must be set to the widest position at the start of the test</li> <li>For the truck loading activity, 2 x loads must be placed square to the headboard</li> <li>For Load 3, the restriction must be higher than the height of the load (the forks may not be raised during manoeuvring activities)</li> <li>The stack must be at least 10 metres away from the truck bed</li> <li>If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

## Activity measurements

Load placing	<ul style="list-style-type: none"> <li>100 mm of a given position</li> </ul>
Load placing (vehicle bed)	<ul style="list-style-type: none"> <li>Maximum of 75 mm clearance between all loads, and the loads and truck headboard</li> </ul>
Load placing (stacking)	<ul style="list-style-type: none"> <li>Maximum of 75mm clearance between each load when placed back at ground level (activity 8)</li> </ul>
Manoeuvring (chicane and reversing)	<ul style="list-style-type: none"> <li>Maximum clearance less than 300 mm or 10% of the machine's width (the greater applies) between the forklift and chicane/restriction sides when undertaking each turn, or passing through</li> </ul>
Manoeuvring LOAD 3	<ul style="list-style-type: none"> <li>Maximum clearance less than 300 mm</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>The test must be completed within 2 hours and 15 minutes</li> </ul>

# Rough Terrain Forklift

A14

Masted

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Forklift set for travel		
	3 Seat belt worn		
	4 Restrictions cleared		
	5 Full control maintained when ascending and descending slopes		
	6 Travel direction on slopes		
	7 No opposite movement of intended direction when restarting on slopes		
	8 Limbs and body kept within confines of cab (when travelling)		
	9 Straight line kept during reversing activity		
	10 Loads secure on forks		
	11 Encountered hazards cleared		
Setting up	12 Allocated area checked and clear of hazards prior to lifting		
	13 Loads assessed for weight and condition prior to lifting		
	14 Forks spaced to match loads		
	15 Forklift level prior to lifting or placing loads		
Working	16 SWL not exceeded at all times		
	17 Machine's stability maintained at all times		
	18 Loads/pallets not damaged during operations		
	19 Sequence of loads placed and removed onto and from truck bed		
	20 Parking brake applied and neutral selected before lifting and placing loads		
	21 Undercut loads		
Completing	22 Loads left safe and secure		
Shutdown	23 All shut down and securing procedures		
Other	24 Legislation, manufacturers' and health and safety requirements complied with		
	25 Test completed within the given time		
<b>All of these items must be awarded</b>		Achieved / Not achieved	

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Forklift mounting and dismounting		1	
	2	Seatbelt use		2	
	3	Full observation before moving and reversing		3	
	4	Maintaining full observation whilst travelling		2	
	5	Matching travel speed to ground conditions and type		1	
Working	6	Placing all loads at the given points within the given tolerance		2	
	7	Keeping forks or loads low but clear of the ground during travel		2	
	8	Positioning and setting the forklift for lifting or placing loads		2	
	9	Entering and exiting loads cleanly		1	
	10	Loads heeled whilst travelling		2	
	11	Lowering loads within 1 metre after removing from truck bed		1	
	12	Sequence of using hydraulic/lifting controls		2	
	13	Smooth use of the steering, braking, transmission and hydraulic controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
			Achieved / Not achieved		



# Forklift Side-loader

A15

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>Side-loader forklift with: <ul style="list-style-type: none"> <li>a seatbelt, ROPS and FOPS units</li> <li>standard forks</li> </ul> </li> </ul>
Area	<ul style="list-style-type: none"> <li>Flat surface for travelling on and for placing/stacking loads</li> <li>Clear straight run not less than 10 metres in length</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>Structure, racking or stacking to allow loads to be placed at high level</li> <li>Items to create restrictions for manoeuvring</li> </ul>
Loads	<ul style="list-style-type: none"> <li><b>LOAD 1</b> 1 x load at least 50% of the rated capacity of the forklift</li> <li><b>LOAD 2</b> 3 x same-sized loads (on pallets) for stacking purposes</li> <li><b>LOAD 3</b> A wide load at least 4 metres in length</li> </ul>
Notes	<ul style="list-style-type: none"> <li>The machine selected for the test must be of at least 1 tonne lift capacity, in serviceable condition and conform with current legislation</li> <li>The operator's manual must be with the forklift</li> <li>The weight of all loads must be known</li> <li>The high level load-placing must be at least 75% of the forklift's full rated height</li> <li>Items for LOAD 2 must be safe for stacking</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>Activity 1 must be undertaken at the start of the test</li> <li>Activities 2–8 can be undertaken in any order</li> <li>Activity 8 may be incorporated during activities 6 or 7</li> <li>Activity 10 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the forklift for travel
Travelling & manoeuvring (refer to specifications)	2. In an unladen state and with LOAD 1, pass through a chicane executing full right- and left-hand turns in a forward and reverse direction 3. With LOAD 3, reverse with a load in a straight line for at least 15 metres and pass through a restriction at the end of the run 4. Reverse up to a structure or object unladen
Setting up for work	5. Prepare and set the forklift for each lift
Working tasks (refer to specifications)	6. Lift and place LOAD 1 at high level on/in the structure/stack. When placed, move the forklift away from the structure/stack. Then retrieve the load, lower to ground level and place at a given point 7. Pick and place Load 2 within 150 mm of a given object or structure. Stack remaining LOAD 2s vertically on top of each other (creating a 3 high load stack). On completion, de-stack all of LOAD 2 and place alongside each other in a straight line 8. Carry out undercutting by both lifting and placing a load
Completing work	9. All loads to be placed at ground level following completion of each activity
Shutting down	10. Park the forklift and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>The forks must be set to the widest position at the start of the test</li> <li>If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Load placing	<ul style="list-style-type: none"> <li>100 mm of a given position</li> </ul>
Load placing (stacking)	<ul style="list-style-type: none"> <li>Maximum of 75 mm clearance between each load when placed back at ground level (activity 8)</li> </ul>
Manoeuvring (chicane and reversing)	<ul style="list-style-type: none"> <li>Maximum clearance less than 300 mm or 10% of the machine's width (the greater applies) between the forklift and chicane/restriction sides when undertaking each turn, or passing through</li> </ul>
Reversing clearance (against structure)	<ul style="list-style-type: none"> <li>Maximum clearance less than 200 mm</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>The test must be completed within 1 hour and 15 minutes</li> </ul>

# Forklift Side-loader

A15

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Forklift set for travel		
	3 Restrictions cleared		
	4 Seat belt worn		
	5 Limbs and body kept within confines of cab/frame (when travelling)		
	6 Straight line kept during reversing activity		
	7 Loads secure and in correct position on forks/bed		
	8 Reversed up to structure within given clearance		
Setting up	9 Encountered hazards cleared		
	10 Allocated area checked and clear of hazards prior to lifting		
	11 Loads assessed for weight and condition prior to lifting		
	12 Forks spaced to match loads		
Working tasks	13 Forklift level prior to lifting or placing loads		
	14 SWL not exceeded at all times		
	15 Machine's stability maintained at all times		
	16 Loads/pallets not damaged during operations		
Completing	17 Parking brake applied and neutral selected before lifting and placing loads		
	18 Undercut loads		
Shutdown	19 Loads left safe and secure		
Other	20 All shut down and securing procedures		
	21 Legislation, manufacturers' and health and safety requirements complied with		
	22 Test completed within the given time		
<b>All of these items must be awarded</b>		Achieved / Not achieved	

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Forklift mounting and dismounting		1	
	2	Full observation before moving and reversing		3	
	3	Maintaining full observation whilst travelling		2	
	4	Matching travel speed to ground conditions and type		1	
	5	Placing all loads at the given points within the given tolerance		2	
	6	Forks clear of load when travelling (unless tilted)		1	
	7	Load clear of deck prior to traversing in		2	
Working	8	Keeping forks low but clear of the ground during travel		2	
	9	Positioning and setting the forklift when lifting or placing loads		2	
	10	Entering and exiting loads cleanly		1	
	11	Loads heeled whilst travelling (if applicable)		1	
	12	Sequence of using hydraulic/lifting controls		2	
	13	Smooth use of the steering, braking, transmission and hydraulic controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
			Achieved / Not achieved		



# Industrial Forklift Truck

**A16**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>Industrial forklift with:               <ul style="list-style-type: none"> <li>– a seatbelt , ROPS and FOPS units</li> <li>– standard forks</li> </ul> </li> </ul>
Area	<ul style="list-style-type: none"> <li>Flat surface for travelling on and for placing/stacking loads</li> <li>Clear straight run not less than 10 metres in length</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>Truck bed fitted with a headboard</li> <li>Structure, racking or stacking to allow loads to be placed at high level</li> <li>Items to create restrictions for manoeuvring</li> </ul>
Loads	<ul style="list-style-type: none"> <li><b>LOAD 1</b> 1 x load at least 50% of the rated capacity of the forklift</li> <li><b>LOAD 2</b> 3 x same-sized loads (on pallets) for stacking purposes</li> <li><b>LOAD 3</b> A wide load at least 3 metres in length</li> </ul>
Notes	<ul style="list-style-type: none"> <li>The machine selected for the test must be of at least 1 tonne lift capacity, in serviceable condition and conform with current legislation</li> <li>The operator's manual must be with the forklift</li> <li>The weight of all loads must be known</li> <li>The truck bed can be simulated but <b>must</b> conform to road haulage standard specifications, including the ground/bed height</li> <li>The high level load-placing must be at least 75% of the forklift's full rated height</li> <li>Items for LOAD 2 must be safe for stacking</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>Activity 1 must be undertaken at the start of the test</li> <li>Activities 2–8 can be undertaken in any order</li> <li>Activity 8 may be incorporated during activities 5–7</li> <li>Activity 10 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the forklift for travel
Travelling & manoeuvring (refer to specifications)	<p>2. In an unladen state and with LOAD 1, pass through a chicane executing full right- and left-hand turns in a forward and reverse direction</p> <p>3. With LOAD 3, reverse with a load in a straight line for at least 10 metres and pass through a restriction at the end of the run</p>
Setting up for work	4. Prepare and set the forklift for each lift
Working tasks (refer to specifications)	<p>5. Lift and place LOAD 1 at high level on/in the structure/stack. When placed, move the forklift away from the structure/stack. Then retrieve the load A, lower to ground level and place at a given point</p> <p>6. Lift and place 3 x LOAD 2 onto the truck bed. On completion, remove all loads bed</p> <p>7. Stack 3 x LOAD 2 vertically on top of one another. On completion, de-stack all of LOAD 2 and place alongside each other in a straight line</p> <p>8. Carry out undercutting by both lifting and placing a load</p>
Completing work	9. All loads to be placed at ground level following completion of each activity
Shutting down	10. Park the forklift and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>The forks must be set to the widest position at the start of the test</li> <li>For the truck loading activity, 2 x loads must be placed square to the headboard</li> <li>For Load 3, the restriction must be higher than the height of the load (the forks may not be raised during manoeuvring activities)</li> <li>The stack must be at least 10 metres away from the truck bed</li> <li>If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Load placing	<ul style="list-style-type: none"> <li>100 mm of a given position</li> </ul>
Load placing (vehicle bed)	<ul style="list-style-type: none"> <li>Maximum of 75 mm clearance between all loads, and the loads and truck headboard</li> </ul>
Load placing (stacking)	<ul style="list-style-type: none"> <li>Maximum of 75 mm clearance between each load when placed back at ground level (activity 8)</li> </ul>
Manoeuvring (chicane and reversing)	<ul style="list-style-type: none"> <li>Maximum clearance less than 300 mm or 10% of the machine's width (the greater applies) between the forklift and chicane/restriction sides when undertaking each turn, or passing through the restriction</li> </ul>
Manoeuvring LOAD 3	<ul style="list-style-type: none"> <li>Maximum clearance less than 300 mm</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>The test must be completed within 1 hour and 45 minutes</li> </ul>

# Industrial Forklift Truck

**A16**

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling g	2 Forklift set for travel		
	3 Restrictions cleared		
	4 Seat belt worn		
	5 Limbs and body kept within confines of cab/frame (when travelling)		
	6 Straight line kept during reversing activity		
Setting up	7 Loads secure on forks		
	8 Encountered hazards cleared		
	9 Allocated area checked and clear of hazards prior to lifting		
	10 Loads assessed for weight and condition prior to lifting		
Working	11 Forks spaced to match loads		
	12 Forklift level prior to lifting or placing loads		
	13 SWL not exceeded at all times		
	14 Machine's stability maintained at all times		
	15 Loads/pallets not damaged during operations		
	16 Sequence of loads placed and removed onto and from truck bed		
Completing	17 Parking brake applied and neutral selected before lifting and placing loads		
	18 Undercut loads		
Shutdown	19 Loads left safe and secure		
Other	20 All shut down and securing procedures		
	21 Legislation, manufacturers' and health and safety requirements complied with		
	22 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling and manoeuvring	1	Forklift mounting and dismounting		1	
	2	Full observation before moving and reversing		3	
	3	Full observation whilst travelling		2	
	4	Travel speed matched to ground conditions and type		1	
	5	All loads placed at the given points within the given tolerance		2	
	6	Forks or loads kept low but clear of the ground during travel		2	
	7	Position and set the forklift when lifting or placing loads		2	
Working tasks	8	Loads entered and exited cleanly		1	
	9	Loads heeled whilst travelling		2	
	10	Loads lowered within 1 metre after removing from truck bed		1	
	11	Sequence of using hydraulic/lifting controls		2	
	12	Smooth use of the steering, braking, transmission and hydraulic controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
				Achieved / Not achieved	



# Telescopic Handler

A17

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>Telescopic Handler with: <ul style="list-style-type: none"> <li>– standard forks</li> <li>– ROPS, FOPS and seatbelt</li> <li>– rough terrain capability (not applicable for Industrial Telescopic endorsement)</li> </ul> </li> </ul>
Area	<ul style="list-style-type: none"> <li>Flat surface for travelling on and for placing/stacking loads</li> <li>Rough undulating terrain, (not applicable for Industrial Telescopic)</li> <li>Slope or slopes</li> <li>Clear straight run not less than 10 metres in length</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>Truck bed fitted with a headboard</li> <li>Loading-out tower built out of scaffolding, either tube and fitting or system (quick lock), that meets current legislation</li> <li>Items to create restrictions for manoeuvring</li> </ul>
Loads	<ul style="list-style-type: none"> <li><b>LOAD 1</b> 1 x load at least 50% of the rated capacity of the tele-handler</li> <li><b>LOAD 2</b> 3 x same-sized loads (on pallets) for stacking purposes</li> <li><b>LOAD 3</b> 1 x load of a weight 30% less than the tele-handler's lift capacity at full reach (horizontal)</li> <li><b>LOAD 4</b> A wide load at least 4 metres in length</li> </ul>
Notes	<ul style="list-style-type: none"> <li>The machine selected for the test must meet the specification for the required endorsement, be in serviceable condition and conform with current legislation</li> <li>The operator's manual must be with the tele-handler</li> <li>The weight of all loads must be known</li> <li>The loading-out tower must be of a height that allows LOAD 1 to be placed using at least 75% of tele-handler's full operating lift height</li> <li>The truck bed can be simulated but <b>must</b> conform to road haulage standard specifications, including the ground/bed height</li> <li>The slope must have at least an 18% (1:5.5) incline with sufficient manoeuvring area at the top, or a straight ramp with an up and down route with a flat area at the summit</li> <li>Items for LOAD 2 must be safe for stacking</li> </ul>

### RESOURCES CONTINUED

Notes continued	If a machine having an operating height in excess of 16 metres is being used for the test, the following concession may be used as an alternative	
	A loading-out tower having a height of 12 metres may be used providing there is a minimum distance, as shown in the table, from the base of the tower to the fork tips of the tele-handler when the tips of the forks are facing the tower	
	Operating height (metres)	Minimum distance (metres)
	17	2
	18	2
	19 metres and above	3

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>Activity 1 must be undertaken at the start of the test</li> <li>Activities 2–9 can be undertaken in any order</li> <li>Activity 9 may be incorporated during activities 5–8</li> <li>Activity 12 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the tele-handler for travel
Travelling & manoeuvring (refer to specifications)	<p>2. In an unladen state and with LOAD 1:</p> <ul style="list-style-type: none"> <li>– travel up and down the slope</li> <li>– travel over rough terrain</li> <li>– pass through a chicane executing full right- and left-hand turns in a forward and reverse direction</li> <li>– stop and restart on the incline whilst loaded</li> </ul> <p>3. With LOAD 4, Reverse in a straight line for at least 20 metres and pass through a restriction at the end of the run</p>
Setting up for work	4. Prepare and set the tele-handler for each lift
Working tasks (refer to specifications)	<p>5. Lift and place LOAD 1 onto the loading out tower. When placed, move the forklift away from the tower. Retrieve the load, lower to ground level and place at a given point</p> <p>6. Lift and place 3 x LOAD 2 onto the truck bed. On completion, remove all loads (LOAD 2) from the truck bed</p> <p>7. Stack 3 x LOAD 2 vertically on top of one another. On completion de-stack and place alongside each other in a straight line</p> <p>8a. Endorsements A, B and C only – Lift LOAD 3 and place at ground level at an indicated point using full reach (horizontal) of the tele-handler</p> <p>8b. Endorsement D only – Lift LOAD 3 and place at ground level at an indicated point, 240 degrees from the pick up point using full reach (horizontal) of the tele-handler</p> <p>9. Carry out undercutting when lifting and placing a load</p>

### ACTIVITY CONTINUED

Completing work	<p>10. All loads to be placed at ground level following completion of each activity</p> <p>11. Configure the forklift for road travel</p>
Shutting down	12. Park the tele-handler and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• The forks must be set to the widest position at the start of the test</li> <li>• For the truck loading activity, 2 x loads must be placed square to the headboard</li> <li>• For item 5, another activity must be undertaken after placing the load at height</li> <li>• For Load 4, the restriction must be higher than the height of the load (the forks may not be raised during manoeuvring activities)</li> <li>• The stack must be at least 10 metres away from the truck bed</li> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

### Activity measurements

Load placing	<ul style="list-style-type: none"> <li>• 100 mm of a given position</li> </ul>
Load placing (vehicle bed)	<ul style="list-style-type: none"> <li>• Maximum of 75 mm clearance between all loads, and the loads and truck headboard</li> </ul>
Load placing (stacking)	<ul style="list-style-type: none"> <li>• Maximum of 75 mm clearance between each load when placing back at ground level (activity 7)</li> </ul>
Manoeuvring	<ul style="list-style-type: none"> <li>• Maximum clearance less than 300 mm or 10% of the machine's width (the greater applies) between the tele-handler and chicane/restriction sides when undertaking each turn, or passing through the restriction</li> </ul>
Manoeuvring LOAD 4	<ul style="list-style-type: none"> <li>• Maximum clearance less than 300 mm</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 2 hours</li> </ul>



# Telescopic Handler

# A17

## Technical Test – Practical

<b>Basic details</b>	Test reference	Candidate name		
	Tester name	Candidate ref.		
	Tester ref.	Date of test		
	Endorsement A <input type="checkbox"/>	Endorsement C <input type="checkbox"/>	Start time of test	
	Endorsement B <input type="checkbox"/>	Endorsement D <input type="checkbox"/>	Duration	
	Make and model			

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Tele-handler set for travel		
	3 Seat belt worn		
	4 Restrictions and hazards cleared		
	5 Full control maintained when ascending and descending slopes		
	6 Travel direction on slopes		
	7 No opposite movement of intended direction when restarting on slopes		
	8 Limbs and body kept within confines of cab (when travelling)		
	9 Straight line kept during reversing activity		
	10 Loads secure on forks		
	Setting up	11 Allocated area checked and clear of hazards prior to lifting	
12 Loads assessed for weight and condition prior to lifting			
13 Forks spaced to match loads			
14 Stabilisers set (if applicable) and forklift level prior to lifting or placing loads			
Working tasks	15 Lift capacity within safe limit		
	16 Machine's stability maintained at all times		
	17 Loads/pallets and surrounding area not damaged during operations		
	18 Sequence of loads placed and removed onto and from truck bed		
	19 Parking brake applied and neutral selected before lifting and placing loads		
Completing	20 Undercut loads		
	21 Loads left safe and secure		
Shutdown	22 All shut down and securing procedures		
Other	23 Legislation, manufacturers' and health and safety requirements complied with		
	24 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Forklift mounting and dismounting		1	
	2	Full observation before moving and reversing		3	
	3	Full observation whilst travelling		2	
	4	Full observation before slewing the upper structure (endorsement D only)		2	
	5	Gear ratios matched to ground and work speed		1	
	6	Travel speed matched to ground conditions and type		2	
	7	All loads placed at the given points within the given tolerance		2	
	8	Boom kept fully retracted during travel		1	
	9	Forks or loads kept low but clear of the ground during travel		2	
Working	10	Position and set the forklift when lifting or placing loads		2	
	11	Loads entered and exited cleanly		1	
	12	Loads heeled whilst travelling		1	
	13	Loads lowered within 1 metre after removing from truck bed		1	
	14	Sequence of using hydraulic/lifting controls		2	
	15	Smooth use of steering, braking, transmission and hydraulic controls		1	
<b>Not exceeded 8 penalties</b>				Total penalties	
					Achieved / Not achieved



# Reach Truck

**A18**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>Reach truck with:               <ul style="list-style-type: none"> <li>a seatbelt, ROPS and FOPS units</li> <li>standard forks</li> </ul> </li> </ul>
Area	<ul style="list-style-type: none"> <li>Flat surface for travelling on and for placing/stacking loads</li> <li>Clear straight run not less than 10 metres in length</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>Truck bed fitted with a headboard</li> <li>Structure, racking or stacking to allow loads to be placed at high level</li> <li>Items to create restrictions for manoeuvring</li> </ul>
Loads	<ul style="list-style-type: none"> <li><b>LOAD 1</b> 1 x load at least 50% of the rated capacity of the forklift</li> <li><b>LOAD 2</b> 3 x same-sized loads (on pallets) for stacking purposes</li> <li><b>LOAD 3</b> A wide load at least 3 metres in length</li> </ul>
Notes	<ul style="list-style-type: none"> <li>The machine selected for the test must be of at least 1 tonne lift capacity, in serviceable condition and conform with current legislation</li> <li>The operator's manual must be with the forklift</li> <li>The weight of all loads must be known</li> <li>The high level load-placing must be at least 75% of the forklift's full rated height</li> <li>Items for LOAD 2 must be safe for stacking</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>Activity 1 must be undertaken at the start of the test</li> <li>Activities 2–7 can be undertaken in any order</li> <li>Activity 7 may be incorporated during activities 5 or 6</li> <li>Activity 9 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the forklift for travel
Travelling & manoeuvring (refer to specifications)	2. In an unladen state and with LOAD 1, pass through a chicane executing full right- and left-hand turns in a forward and reverse direction 3. With LOAD 3, reverse with a load in a straight line for at least 10 metres and pass through a restriction at the end of the run
Setting up for work	4. Prepare and set the forklift for each lift
Working tasks (refer to specifications)	5. Lift and place LOAD 1 at high level on/in the structure/stack. When placed, move the forklift away from the structure/stack. Then retrieve the load A, lower to ground level and place at a given point 6. Pick and place LOAD 2 within 150 mm of a given object or structure. Stack remaining LOAD 2s vertically on top of each other (creating a 3-high load stack). On completion, de-stack all of LOAD 2 and place alongside each other in a straight line 7. Carry out undercutting by both lifting and placing a load
Completing work	8. All loads to be placed at ground level following completion of each activity
Shutting down	9. Park the forklift and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>The forks must be set to the widest position at the start of the test</li> <li>For Load 3, the restriction must be higher than the height of the load (the forks may not be raised during manoeuvring activities)</li> <li>If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Load placing	<ul style="list-style-type: none"> <li>100 mm of a given position</li> </ul>
Load placing (stacking)	<ul style="list-style-type: none"> <li>Maximum of 75 mm clearance between each load when placed back at ground level (activity 8)</li> </ul>
Manoeuvring (chicane and reversing)	<ul style="list-style-type: none"> <li>Maximum clearance less than 300 mm or 10% of the machine's width (the greater applies) between the forklift and chicane/restriction sides when undertaking each turn, or passing through</li> </ul>
Manoeuvring LOAD 3	<ul style="list-style-type: none"> <li>Maximum clearance less than 300 mm</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>The test must be completed within 1 hour and 15 minutes</li> </ul>

# Reach Truck

# A18

## Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Forklift set for travel		
	3 Restrictions cleared		
	4 Seat belt worn		
	5 Limbs and body kept within confines of cab/frame (when travelling)		
	6 Straight line kept during reversing activity		
	7 Loads secure on forks		
Setting up	8 Encountered hazards cleared		
	9 Allocated area checked and clear of hazards prior to lifting		
	10 Loads assessed for weight and condition prior to lifting		
Working	11 Forks spaced to match loads		
	12 Forklift level prior to lifting or placing loads		
	13 SWL not exceeded at all times		
	14 Machine's stability maintained at all times		
	15 Loads/pallets not damaged during operations		
Completing	16 Parking brake applied and neutral selected before lifting and placing loads		
	17 Undercut loads		
Shutting	18 Loads left safe and secure		
Other	19 All shut down and securing procedures		
	20 Legislation, manufacturers' and health and safety requirements complied with		
	21 Test completed within the given time		
<b>All of these items must be awarded</b>		Achieved / Not achieved	

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Forklift mounting and dismounting		1	
	2	Full observation before moving and reversing		3	
	3	Full observation whilst travelling		2	
	4	Travel speed matched to ground conditions and type		1	
	5	All loads placed at the given points within the given tolerance		2	
	6	Forks or loads kept low but clear of the ground during travel		2	
	7	Position and set the forklift when lifting or placing loads		2	
	8	Mast fully retracted during travel		2	
Working	9	Loads entered and exited cleanly		1	
	10	Loads heeled whilst travelling		1	
	11	Sequence of using hydraulic/lifting controls		2	
	12	Smooth use of the steering, braking, transmission and hydraulic controls		1	
		<b>Not exceeded 8 penalties</b>	Total penalties		
			Achieved / Not achieved		



# Grader

**A19**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Grader with centrally-mounted blade</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include:             <ul style="list-style-type: none"> <li>– level area for grading activities</li> <li>– rough terrain</li> <li>– slope or slopes</li> <li>– bank of suitable material</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Items to create restrictions for manoeuvring</li> <li>• Laser equipped measuring equipment to ensure earthmoving specifications are met</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the grader</li> <li>• The level area must be at least 30 metres in length and 3 x the blade width</li> <li>• The bank must be at least 15 metres in length</li> <li>• The slope must have at least an 18% (1:5.5) incline with sufficient manoeuvring room at the top, or a straight ramp with an up and down route with a flat area at the summit</li> </ul>

## ACTIVITY

**Instructions**

Sequence	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activities 2, 4 and 5 can be undertaken at any time during the test</li> <li>• Activity 7 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the grader for travel
Travelling & manoeuvring (refer to specifications)	2. Travel to the work area and: <ul style="list-style-type: none"> <li>– travel up and down the slope</li> <li>– pass through a restriction</li> <li>– travel over rough terrain</li> </ul>
Setting up for work	3. Prepare and set the grader for the relevant work
Working tasks (refer to specifications)	4. Trim the bank to an agreed angle 5. Grade and level an area to specification 6. Reinstate the work area to level
Shutting down	7. Park the grader and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

**Activity measurements**

Travel restrictions	<ul style="list-style-type: none"> <li>• 800 mm</li> </ul>
Bank grading	<ul style="list-style-type: none"> <li>• 15 metres minimum to <math>\pm 35</math> mm</li> </ul>
Level grading	<ul style="list-style-type: none"> <li>• 30 metres in length and 3 x the blade width to <math>\pm 35</math> mm</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 1 hour and 45 minutes</li> </ul>

# Grader

# A19

## Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Grader set for travel		
	3 Restrictions cleared		
	4 Encountered hazards cleared		
Setting up	5 Control maintained when ascending and descending inclines		
	6 Allocated area checked and clear of hazards prior to grading		
	7 Grader set for required work		
Working	8 Mouldboard set to required position for banking and level work		
	9 Bank profile constant and met given specification and tolerances		
	10 Level area graded and conformed to the stated sizes and tolerances		
	11 No contact between mouldboard and machine		
Shutdown	12 Excavated area reinstated to level		
	13 All shut down and securing procedures		
Other	14 Legislation, manufacturers' and health and safety requirements complied with		
	15 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Grader mounting and dismounting		1	
	2	Full observation before moving and reversing		3	
	3	Full observation whilst travelling		2	
	4	Mouldboard within machine confines when travelling		1	
	5	Travel speed matched to the ground type and conditions		1	
Working	6	Mouldboard lowered whilst moving		1	
	7	Area graded in layers		2	
	8	Feathering out at the end of the cut		2	
	9	Smooth use of steering/braking/hydraulic controls		2	
	10	Sequence of steering/braking/hydraulic controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Hoist

A20

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Hoist</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include: <ul style="list-style-type: none"> <li>– an exclusion zone</li> <li>– above ground access points</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Load of a known weight</li> <li>• Loading assistance</li> <li>• Harness equipment (if applicable)</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must meet the specification for the required endorsement, be in serviceable condition and conform with current legislation</li> <li>• There must be at least 3 access points above ground level</li> <li>• The operator's manual must be with the hoist</li> <li>• A load weighing at least 1 tonne or 50% of the hoist's payload</li> <li>• The need and type of harness equipment may vary with different types of Hoist. A risk assessment must be undertaken to establish the correct type. Further information may be obtained from the Health and Safety Executive (HSE), The Construction Plant-hire Association (CPA), the International Powered Access Federation (IPAF) or other reputable organisations</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activities 1–3 must be undertaken at the start of the test</li> <li>• Activity 12 must be undertaken at the end of the test</li> <li>• All other activities to be taken sequentially</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	<ol style="list-style-type: none"> <li>1. Check that the hoist is positioned on firm level ground, secure and supported</li> <li>2. Check that all related equipment is positioned as required by the manufacturer</li> <li>3. Complete all manufacturers' pre-start and running checks and prepare the hoist for work</li> </ol>
Setting up for work	<ol style="list-style-type: none"> <li>4. Prepare an exclusion zone in the relevant area</li> <li>5. Agree the signal codes with the signaller</li> <li>6. Travel the platform unladen to the full limits of operation</li> <li>7. Carry out the emergency lowering procedure (passenger type only)</li> </ol>
Working tasks (refer to specifications)	<ol style="list-style-type: none"> <li>8. Place the load within the platform</li> <li>9. Travel the platform to a given level and remove the load</li> <li>10. Place the load within the platform and travel to a different level</li> <li>11. Travel the platform to an out-of-service level and remove the load</li> </ol>
Shutting down	<ol style="list-style-type: none"> <li>12. Place the hoist out-of-service and secure</li> </ol>
Notes	<ul style="list-style-type: none"> <li>• At least three points shall be accessed including one with given signals</li> <li>• If the hoist is operated by an internal combustion engine and is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 1 hour</li> </ul>

# Hoist

A20

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Endorsement A <input type="checkbox"/>	Endorsement C <input type="checkbox"/>
	Endorsement B <input type="checkbox"/>	Endorsement D <input type="checkbox"/>
	Start time of test	
	Duration	
Make and model		

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 Checked the work area for hazards prior to use		
	2 Checked the hoist was vertical prior to use		
	3 Checked the hoist was stable prior to use		
	4 All pre-start and running checks (or responses to relevant questions)		
Setting up	5 Allocated area checked and clear of hazards prior to work		
	6 Accessing area secured		
	7 Signal arrangements confirmed with the signaller		
	8 Harness equipment donned and attached (if required)		
	9 Safety devices checked for function and security		
	10 Emergency lowering function check		
	11 Platform travelled to limits of operation		
Working	12 Prepared platform and landing for load transfer		
	13 Accessed given landing points		
	14 Load secure in platform		
	15 Followed given instructions		
	16 Maintained stability at all times		
	17 Platform positioned at out-of-service level		
Shutdown	18 All out-of-service and securing procedures		
Other	19 Legislation, manufacturers' and health and safety requirements complied with		
	20 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1 Platform loading and unloading			2	
	2 Full observation before moving			2	
	3 Full observation whilst travelling			2	
Working	4 Platform raised smoothly			2	
	5 Platform lowered smoothly			1	
	6 Intended direction selected for travel			2	
	7 Sequence of controls			1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Wheeled Loading Shovel

A21

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Wheeled Loading Shovel with:             <ul style="list-style-type: none"> <li>– a general purpose bucket</li> </ul> </li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include:             <ul style="list-style-type: none"> <li>– rough terrain</li> <li>– slope or slopes</li> <li>– mound or bank of material suitable for extraction</li> <li>– a straight run for reversing</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Load-carrying vehicle for spoil/material</li> <li>• Items to create restrictions for manoeuvring</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the machine</li> <li>• The slope must have at least an 18% (1:5.5) incline with sufficient manoeuvring room at the top, or a straight ramp with an up and down route with a flat area at the summit</li> <li>• The load carrying vehicle must be rear tipping, have a minimum capacity equivalent to 4 full bucket loads of the loading shovel being used for the test</li> <li>• There must be sufficient quantity of material from the bank or mound for all the activities</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activity 2 can be undertaken at any time during the test</li> <li>• Activities 4 and 5 can be undertaken in any order</li> <li>• Activity 7 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the loading shovel for travel
Travelling & manoeuvring (refer to specifications)	2. In a loaded and unloaded state: <ul style="list-style-type: none"> <li>– travel up and down the slope</li> <li>– stop and start on the slope in the up direction</li> <li>– stop and start on the slope in the down direction</li> <li>– travel over rough terrain</li> <li>– reverse (loaded only) in a straight line for a minimum of 30 metres and pass through a restriction at the end of the run</li> </ul>
Setting up for work	3. Prepare and set the loading shovel for the relevant work
Working tasks (refer to specifications)	4. Using material from the bank, create an upward ramp 5. Load material into a vehicle
Completing work	6. Clean and tidy the work area
Shutting down	7. Park the loading shovel and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Travel restrictions	<ul style="list-style-type: none"> <li>• 800 mm</li> </ul>
Ramp length	<ul style="list-style-type: none"> <li>• 1.5 times the length of the loading shovel</li> </ul>
Ramp width	<ul style="list-style-type: none"> <li>• At least 1.5 times the width of the bucket</li> </ul>
Ramp incline	<ul style="list-style-type: none"> <li>• Minimum of 18% (1. 5.5)</li> </ul>
Loading vehicle	<ul style="list-style-type: none"> <li>• Minimum of eight full bucket loads (vehicle can be re-loaded to achieve this figure)</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 1 hour and 45 minutes</li> </ul>

# Wheeled Loading Shovel

**A21**

Technical Test – Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Loading shovel set for travel		
	3 Restrictions and hazards cleared		
	4 Full control maintained when ascending and descending slopes		
	5 No opposite movement of intended direction when restarting on slopes		
	6 Travel direction on slopes		
Setting up	7 Straight line kept during reversing activity		
	8 Allocated area checked and clear of hazards prior to extracting and loading		
Working	9 Ramp created to specification		
	10 Loading vehicle positioning prior to loading		
	11 Vehicle loaded to specification		
	12 Vehicle evenly loaded but not overloaded		
	13 Spillage of material kept to minimum		
Completing	14 Loading shovel stable during activities		
	15 Working area cleaned after loading		
Shutdown	16 All shutdown and securing procedures		
Other	17 Legislation, manufacturers' and health and safety requirements complied with		
	18 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS	Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1 Loading shovel mounting and dismounting		1	
	2 Full observation before moving and reversing		2	
	3 Full observation whilst travelling		3	
	4 Transmission drive engaged smoothly		1	
	5 Travel speed matched to the ground type and conditions		2	
Working	6 Bucket kept low at all times (except during loading work)		2	
	7 Wheel spin minimised		1	
	8 Full bucket loads maintained (except for cleaning work)		2	
	9 Material cleanly placed into the loading vehicle		2	
	10 Contact with vehicle avoided when loading		2	
	11 Use of steering/braking/hydraulic controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties	
				Achieved / Not achieved



# Tracked Loading Shovel

A22

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Tracked Loading Shovel with:             <ul style="list-style-type: none"> <li>– Clamshell (4 in 1) bucket</li> </ul> </li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include:             <ul style="list-style-type: none"> <li>– level area to allow excavations up to 2 metres deep</li> <li>– rough terrain</li> <li>– slope or slopes</li> <li>– a straight run for reversing</li> <li>– spoil/material to load vehicles</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Load-carrying vehicle for spoil/material</li> <li>• Laser equipped measuring equipment to ensure excavation specifications are met</li> <li>• Items to create restrictions for manoeuvring</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the machine</li> <li>• The slope must have at least an 18% (1:5.5) incline with sufficient manoeuvring room at the top, or a straight ramp with an up and down route with a flat area at the summit</li> <li>• The load carrying vehicle must be rear tipping and have a minimum capacity equivalent to 4 full bucket loads of the loading shovel being used for the test</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activity 2 can be undertaken at any time during the test</li> <li>• Activities 4 and 5 can be undertaken in any order</li> <li>• Activity 7 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the loading shovel for travel
Travelling & manoeuvring (refer to specifications)	2. In a loaded and unloaded state: <ul style="list-style-type: none"> <li>– travel up and down the slope</li> <li>– stop and start on the slope in the up direction</li> <li>– travel over rough terrain</li> <li>– reverse (loaded only) in a straight line for a minimum of 30 metres and pass through a restriction at the end of the run</li> </ul>
Setting up for work	3. Prepare and set the loading shovel for the relevant work
Working tasks (refer to specifications)	4. Extract material from below ground level to the specified dimensions and form a stockpile 5. Load material into a vehicle 6. Reinststate the work area back to the original state
Shutting down	7. Park the loading shovel and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• The stockpile formed by the excavation may be used to load the vehicle</li> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Travel restrictions	<ul style="list-style-type: none"> <li>• 800 mm</li> </ul>
Excavation depth	<ul style="list-style-type: none"> <li>• 0.5 metre <math>\pm</math>35 mm</li> </ul>
Trench length	<ul style="list-style-type: none"> <li>• 5 x the length of the loading shovel</li> </ul>
Trench width	<ul style="list-style-type: none"> <li>• 2.5 times the width of the bucket</li> </ul>
Loading vehicle	<ul style="list-style-type: none"> <li>• Minimum of eight full bucket loads (vehicle can be re-loaded to achieve this figure)</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 2 hours and 45 minutes</li> </ul>

# Tracked Loading Shovel

A22

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Loading shovel set for travel		
	3 Restrictions and hazards cleared		
	4 Full control maintained when ascending and descending slopes		
	5 No opposite movement of intended direction when restarting on slopes		
	6 Travel direction on slopes		
Setting up	7 Straight line kept during reversing activity		
	8 Allocated area checked and clear of hazards prior to extracting and loading		
Working	9 Excavation conforms to stated sizes and tolerances		
	10 Smooth ramp to the excavation		
	11 Loading vehicle positioning prior to loading		
	12 Vehicle loaded to capacity		
	13 Vehicle evenly loaded but not overloaded		
	14 Spillage of material kept to minimum		
Shutdown	15 Loading shovel stable during activities		
	16 Excavated area reinstated back to the original contours		
Other	17 All shutdown and securing procedures		
	18 Legislation, manufacturers' and health and safety requirements complied with		
	19 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Loading shovel mounting and dismounting		1	
	2	Full observation before moving and reversing		3	
	3	Full observation whilst travelling		2	
	4	Transmission drive engaged smoothly		1	
	5	Travel speed matched to the ground type and conditions		1	
Working	6	Bucket kept low at all times (except during loading work)		2	
	7	Minimised ground damage when turning		1	
	8	Full bucket loads maintained (except for cleaning work)		2	
	9	Material cleanly placed into the loading vehicle		1	
	10	Contact with vehicle avoided when loading		2	
	11	Use of steering/braking/hydraulic controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Skid Steer Loader

**A23**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Skid steer loader with:             <ul style="list-style-type: none"> <li>– a general purpose bucket</li> <li>– seat belt</li> </ul> </li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include:             <ul style="list-style-type: none"> <li>– rough terrain</li> <li>– slope or slopes</li> <li>– mound or bank of material suitable for extraction</li> <li>– a straight run for reversing</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Load-carrying vehicle for spoil/material</li> <li>• Items to create restrictions for manoeuvring</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the machine</li> <li>• The slope must have at least an 18% (1:5.5) incline with sufficient manoeuvring room at the top, or a straight ramp with an up and down route with a flat area at the summit</li> <li>• The load-carrying vehicle must have a minimum capacity equivalent to 4 full bucket loads of the skid steer being used for the test</li> <li>• There must be sufficient quantity of material from the bank or mound for all the activities</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activity 2 can be undertaken at any time during the test</li> <li>• Activities 5 and 6 can be undertaken in any order</li> <li>• Activity 7 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the skid steer for travel
Travelling & manoeuvring (refer to specifications)	2. In a loaded and unloaded state: <ul style="list-style-type: none"> <li>– travel up and down the slope</li> <li>– stop and start on the slope in the up direction</li> <li>– stop and start on the slope in the down direction</li> <li>– travel over rough terrain</li> <li>– reverse (loaded only) in a straight line for a minimum of 15 metres and pass through a restriction at the end of the run</li> </ul>
Setting up for work	3. Prepare and set the skid steer for the relevant work
Working tasks (refer to specifications)	4. Using material from the bank, create an upward ramp 5. Load material into a vehicle 6. Clean and tidy the work area
Shutting down	7. Park the skid steer and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Travel restrictions	<ul style="list-style-type: none"> <li>• 800 mm</li> </ul>
Ramp length	<ul style="list-style-type: none"> <li>• 1.5 times the length of the skid steer</li> </ul>
Ramp width	<ul style="list-style-type: none"> <li>• At least 1.5 times the width of the bucket</li> </ul>
Ramp incline	<ul style="list-style-type: none"> <li>• Minimum of 18% (1.5.5)</li> </ul>
Loading vehicle	<ul style="list-style-type: none"> <li>• Minimum of eight full bucket loads (vehicle can be re-loaded to achieve this figure)</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 1 hour and 45 minutes</li> </ul>

# Skid Steer Loader

**A23**

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Seat belt worn		
	3 Skid steer set for travel		
	4 Restrictions and hazards cleared		
	5 Full control maintained when ascending and descending slopes		
	6 No opposite movement of intended direction when restarting on slopes		
	7 Travel direction on slopes		
	8 Straight line kept during reversing activity		
Setting up	9 Allocated area checked and clear of hazards prior to extracting and loading		
Working	10 Ramp created to specification		
	11 Loading vehicle positioning prior to loading		
	12 Vehicle loaded to capacity		
	13 Vehicle evenly loaded but not overloaded		
	14 Spillage of material kept to minimum		
	15 Skid steer stable during activities		
Shutdown	16 Working area cleaned after loading		
Other	17 All shutdown and securing procedures		
	18 Legislation, manufacturers' and health and safety requirements complied with		
	19 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Skid steer mounting and dismounting		1	
	2	Full observation before moving		2	
	3	Full observation whilst travelling		2	
	4	Full observation before moving and reversing		3	
	5	Transmission drive engaged smoothly		1	
	6	Travel speed matched to the ground type and conditions		1	
Working	7	Bucket kept low at all times (except during loading work)		2	
	8	Wheel spin minimised		1	
	9	Full bucket loads maintained (except for cleaning work)		2	
	10	Material cleanly placed into the loading vehicle		2	
	11	Contact with vehicle avoided when loading		2	
	12	Use of steering/braking/hydraulic controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Motorised Scraper

A24

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Motorised Scraper</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include:             <ul style="list-style-type: none"> <li>– level area for excavating and depositing loads</li> <li>– rough terrain</li> <li>– slope or slopes</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Pushing assistance (if required)</li> <li>• Items to create restrictions for manoeuvring</li> <li>• Laser equipped measuring equipment to ensure trench specifications are met</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the scraper</li> <li>• The slope must have at least an 18% (1:5.5) incline with sufficient manoeuvring room at the top, or a straight ramp with an up and down route with a flat area at the summit</li> <li>• The nominated area must be safe to allow excavations up to 2 metres deep and 30 metres long</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activities 2, 5 and 6 can be undertaken at any time during the test</li> <li>• Activity 7 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1. Complete all manufacturers' pre-start and running checks and prepare the scraper for travel
Travelling & manoeuvring (refer to specifications)	2. Travel to the work area and: <ul style="list-style-type: none"> <li>– travel up and down the slope</li> <li>– pass through a restriction</li> <li>– travel over rough terrain</li> </ul> 3. Reverse into a restricted area
Setting up for work	4. Prepare and set the scraper for the relevant work
Working tasks (refer to specifications)	5. Excavate a given area 6. Deposit the loads to formation level. Discharged to a uniform length
Shutting down	7. Park the scraper and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• A pusher machine may be used for activity 5</li> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Travel restrictions	<ul style="list-style-type: none"> <li>• 800 mm</li> </ul>
Reversing procedures	<ul style="list-style-type: none"> <li>• 800 mm</li> </ul>
Excavation length	<ul style="list-style-type: none"> <li>• Bowl filled to capacity</li> </ul>
Excavation depth	<ul style="list-style-type: none"> <li>• Minimum of 6 cuts</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 2 hours and 45 minutes</li> </ul>

# Motorised Scraper

A24

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Scraper set for travel		
	3 Restrictions cleared		
	4 Encountered hazards cleared		
Setting up	5 Control maintained when ascending and descending inclines		
	6 Allocated area checked and clear of hazards prior to excavating		
Working	7 Positioned accurately within the cut		
	8 Bowl filled to capacity		
	9 Depth of cut controlled		
	10 No of runs		
	11 Procedure when using pusher machine		
	12 Minimised wheel spin		
Shutdown	13 Maintained stability		
	14 Excavated area reinstated back to the original contours		
Other	15 All shutdown and securing procedures		
	16 Legislation, manufacturers' and health and safety requirements complied with		
	17 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Scraper mounting and dismounting		1	
	2	Full observation before moving and reversing		3	
	3	Full observation whilst travelling and reversing		2	
	4	Travel speed matched to the ground type and conditions		1	
	5	Control of throttle and gear selection		2	
Working	6	Fill area entered at appropriate speed		1	
	7	Feather out at the end of each cut		2	
	8	Site and set for excavating		2	
	9	Trench excavated in layers		1	
	10	Ejector and bowl height reset after depositing each load		2	
	11	Loads discharged in a continuous layer		1	
	12	Smooth use of steering and hydraulic controls		2	
	13	Sequence of using steering/hydraulic controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Mobile Elevating Work Platform

A25

Scissor

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• MEWP Scissor</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include:             <ul style="list-style-type: none"> <li>– level area for carrying out activities</li> <li>– structure or structures for accessing purposes</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Harness (if required – see notes)</li> <li>• Toolbox or similar item of a known weight</li> <li>• Signaller</li> <li>• Items to create restrictions for manoeuvring</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must have a platform height of at least 4 metres, be in serviceable condition and conform with current legislation</li> <li>• The MEWP must be capable of travelling with the platform in the raised position</li> <li>• The operator's manual must be with the MEWP</li> <li>• The structure must have items or objects positioned at a height of at least 75% of the platform's working height</li> <li>• The toolbox or similar must weigh at least 10 kilos</li> <li>• The type and need for harness equipment may vary with different types of MEWP. A risk assessment must be undertaken to establish the correct type. Further information may be obtained from the Health and Safety Executive (HSE), The Construction Plant-hire Association (CPA), the International Powered Access Federation (IPAF) or other reputable organisations</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activities 3–4 can be undertaken in any order</li> <li>• Activity 7 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	<ol style="list-style-type: none"> <li>1. Complete all manufacturers' pre-start and running checks and prepare the MEWP for travel</li> <li>2. Carry out an emergency lowering function check</li> </ol>
Travelling & manoeuvring (refer to specifications)	<ol style="list-style-type: none"> <li>3. Travel to the work area and pass through a chicane executing full left- and right-hand turns</li> <li>4. Travel the MEWP with the platform raised and pass through a restriction</li> </ol>
Setting up for work	<ol style="list-style-type: none"> <li>5. Prepare an exclusion zone in the relevant area</li> </ol>
Working tasks (refer to specifications)	<ol style="list-style-type: none"> <li>6. Access given points at height</li> </ol>
Shutting down	<ol style="list-style-type: none"> <li>7. Park the MEWP and carry out shut-down and securing procedures</li> </ol>
Notes	<ul style="list-style-type: none"> <li>• At least three points shall be accessed for height – one with and two without given signals. The platform will be fully lowered between accessing each point</li> <li>• The platform must be at least 50% of maximum available height for activity 3</li> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Travel restrictions	<ul style="list-style-type: none"> <li>• 500 mm</li> </ul>
Chicane restrictions	<ul style="list-style-type: none"> <li>• 20% of the MEWP's width</li> </ul>
Height to be accessed	<ul style="list-style-type: none"> <li>• At least 75% of the MEWP's maximum operating height</li> </ul>
Travel distance with raised platform	<ul style="list-style-type: none"> <li>• 10 metres</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 1 hour and 15 minutes</li> </ul>

# Mobile Elevating Work Platform

A25

Scissor

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
	2 Emergency lowering function checked		
Travelling	3 MEWP set for travel		
	4 Tools/equipment checked for security and positioning		
	5 Route assessed prior to travel		
	6 Encountered hazards and restrictions cleared		
Setting up	7 Faced direction of travel whilst travelling		
	8 Allocated area checked and clear of hazards prior to accessing		
	9 Accessing area secured		
	10 Signal arrangements confirmed with the signaller		
Working	11 Harness donned and attached (if needed)		
	12 MEWP positioned to access each point		
	13 Accessed given points and height		
	14 No contact with obstructions		
Shutdown	15 Followed given instructions		
	16 Maintained stability at all times		
	17 Fall arrest equipment stowed for future use		
Other	18 All shutdown and securing procedures		
	19 Emergency lowering function check		
	20 Legislation, manufacturers' and health and safety requirements complied with		
	21 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	MEWP mounting and dismounting		1	
	2	Full observation before moving		2	
	3	Full observation whilst travelling		2	
	4	Full observation before and during raising the platform		2	
	5	Full observation before and during lowering the platform		2	
Working	6	Platform raised smoothly		1	
	7	Platform lowered smoothly		1	
	8	Intended direction selected for travel		1	
	9	Travelling smoothly with a raised platform		2	
	10	Sequence of using steering and hydraulic controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Mobile Elevating Work Platform

A26

Boom

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• MEWP Boom</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include:             <ul style="list-style-type: none"> <li>– level area for carrying out activities</li> <li>– structure or structures for accessing purposes</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Harness</li> <li>• Toolbox or similar item of a known weight</li> <li>• Signaller</li> <li>• Items to create restrictions for manoeuvring</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must have a platform height of at least 5 metres and a horizontal reach of at least 3 metres, meet the specification for the required endorsement, be in serviceable condition and conform with current legislation</li> <li>• To meet the criteria for endorsement B, the MEWP must be capable of travelling with the platform in the raised position</li> <li>• The operator's manual must be with the MEWP</li> <li>• The structure must have items or objects positioned at a height of at least 75% of the platform's working height</li> <li>• The toolbox or similar, which must weigh at least 10 kilos</li> <li>• The type and need for harness equipment may vary with different types of MEWP. A risk assessment must be undertaken to establish the correct type. Further information may be obtained from the Health and Safety Executive (HSE), The Construction Plant-hire Association (CPA), the International Powered Access Federation (IPAF) or other reputable organisations</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activities 3, 4, 6 and 7 can be undertaken in any order</li> <li>• Activity 8 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	<ol style="list-style-type: none"> <li>1. Complete all manufacturers' pre-start and running checks and prepare the MEWP for travel</li> <li>2. Carry out an emergency lowering function check</li> </ol>
Travelling & manoeuvring (refer to specifications)	<ol style="list-style-type: none"> <li>3. Travel to the work area and pass through a chicane executing full left- and right-hand turns</li> <li>4. Travel the MEWP with the platform raised and pass through a restriction (endorsement B only)</li> </ol>
Setting up for work	<ol style="list-style-type: none"> <li>5. Prepare an exclusion zone in the relevant area</li> </ol>
Working tasks (refer to specifications)	<ol style="list-style-type: none"> <li>6. Access given points at height</li> <li>7. Access given points requiring use of horizontal reach</li> </ol>
Shutting down	<ol style="list-style-type: none"> <li>8. Park the MEWP and carry out shut-down and securing procedures</li> </ol>
Notes	<ul style="list-style-type: none"> <li>• At least two points shall be accessed for height and at least two points for reach – one with and one without given signals</li> <li>• For activity 3, the platform should be at least 50% of maximum available height</li> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Travel restrictions	<ul style="list-style-type: none"> <li>• 500 mm</li> </ul>
Chicane restrictions	<ul style="list-style-type: none"> <li>• 20% of the MEWP's width</li> </ul>
Height to be accessed	<ul style="list-style-type: none"> <li>• At least 75% of the MEWP's maximum operating height</li> </ul>
Horizontal reach	<ul style="list-style-type: none"> <li>• At least 75% of the MEWP's horizontal reach ability</li> </ul>
Travel distance with raised platform	<ul style="list-style-type: none"> <li>• 10 metres</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 1 hour and 15 minutes</li> </ul>

# Mobile Elevating Work Platform

A26

Boom

Technical Test – Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Endorsement A <input type="checkbox"/> Endorsement B <input type="checkbox"/>	Start time of test
	Make and model	Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
	2 Emergency lowering function checked		
Travelling	3 MEWP set for travel		
	4 Tools/equipment checked for security and positioning		
	5 Route assessed prior to travel		
	6 Encountered hazards and restrictions cleared		
Setting up	7 Faced direction of travel whilst travelling		
	8 Allocated area checked and clear of hazards prior to accessing		
	9 Accessing area secured		
	10 Signal arrangements confirmed with the signaller		
	11 Harness donned and attached		
Working	12 MEWP positioned to access each point		
	13 Accessed given points and height		
	14 Accessed given points using horizontal reach		
	15 No contact with obstructions		
Shutdown	16 Followed given instructions		
	17 Maintained stability at all times		
	18 All shutting down and securing procedures		
Other	19 Fall arrest equipment stowed for future use		
	20 Legislation, manufacturers' and health and safety requirements complied with		
	21 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	MEWP mounting and dismounting		1	
	2	Full observation before moving and whilst travelling		2	
	3	Full observation before and during raising the platform		2	
	4	Full observation before and during lowering the platform		2	
	5	Full observation before and during slewing or extending the platform		2	
Working	6	Platform raised smoothly		1	
	7	Platform lowered smoothly		1	
	8	Platform slewed smoothly		1	
	9	Intended direction selected for travel		1	
	10	Travelling smoothly with a raised platform		2	
	11	Sequence of using steering and hydraulic controls		1	
<b>Not exceeded 8 penalties</b>				Total penalties	
					Achieved / Not achieved



# Mobile Elevated Work Platform

**A27**

Mast Climber

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• MEWP Mast Climber</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include:             <ul style="list-style-type: none"> <li>– an exclusion zone</li> <li>– above ground access points</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Load of a known weight</li> <li>• Harness (if applicable)</li> <li>• Loading assistance</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must meet be in serviceable condition and conform with current legislation</li> <li>• There must be at least 3 access points above ground level</li> <li>• The operator's manual must be with the mast climber</li> <li>• A load weighing at least 1 tonne or 50% of the mast climber's payload</li> <li>• The need and type of harnessing equipment may vary with different types of mast climbers. A risk assessment must be undertaken to establish the correct type. Further information may be obtained from the Health and Safety Executive (HSE), The Construction Plant-hire Association (CPA), the International Powered Access Federation (IPAF) or other reputable organisations</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activities 1–3 must be undertaken at the start of the test</li> <li>• Activity 10 must be undertaken at the end of the test</li> <li>• All other activities to be taken sequentially</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	<ol style="list-style-type: none"> <li>1. Check that the mast climber is positioned on firm level ground, secure and supported</li> <li>2. Check that all related equipment is positioned as required by the manufacturer</li> <li>3. Complete all manufacturers' pre-start and running checks and prepare the mast climber for work</li> </ol>
Setting up for work	<ol style="list-style-type: none"> <li>4. Prepare an exclusion zone in the relevant area</li> <li>5. Travel the platform unladen to the full limits of operation</li> <li>6. Carry out the emergency lowering procedure by lowering within one floor</li> </ol>
Working tasks (refer to specifications)	<ol style="list-style-type: none"> <li>7. Place the load within the platform</li> <li>8. Travel the platform to given levels</li> <li>9. Travel the platform to an out-of-service level and remove the load</li> </ol>
Shutting down	<ol style="list-style-type: none"> <li>10 Place the mast climber out-of-service and secure</li> </ol>
Notes	<ul style="list-style-type: none"> <li>• At least four points shall be accessed</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 1 hour and 15 minutes</li> </ul>

# Mobile Elevated Work Platform

**A27**

Mast Climber

Technical Test – Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 Checked the work area for hazards prior to use		
	2 Checked the mast climber was vertical prior to use		
	3 Checked the mast climber was stable prior to use		
	4 All pre-start and running checks (or responses to relevant questions)		
Setting up	5 Allocated area checked and clear of hazards prior to work		
	6 Accessing area secured		
	7 Harness donned and attached (if required)		
	8 Safety devices checked for function and security		
	9 Emergency lowering function checked		
	10 Platform travelled to limits of operation		
Working	11 Prepared platform and landing for load transfer		
	12 Accessed given points		
	13 Load secure in platform		
	14 Followed given instructions		
	15 Platform positioned at an out-of-service level		
Shutdown	16 All out-of-service and securing procedures		
Other	17 Legislation, manufacturers' and health and safety requirements complied with		
	18 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1 Platform loading and unloading			2	
	2 Full observation before moving			2	
	3 Full observation whilst travelling			2	
Working	4 Platform raised smoothly			2	
	5 Platform lowered smoothly			1	
	6 Intended direction selected for travel			2	
	7 Sequence of controls			1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Piling Rig

Tripod

**A30**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Piling rig configured for bored operations</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Flat area to driven works to take place</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Winching systems with power unit</li> <li>• Driving equipment to form bored piles</li> <li>• Additional equipment to form piles</li> <li>• Equipment to secure the tripod for work</li> <li>• Equipment to remove excess spoil</li> <li>• Suitable personnel to assist with the operations</li> <li>• Lifting equipment for tripod assembly/dismantling (if required)</li> <li>• Applicable lifting accessories for all loads (if required)</li> </ul>
Piles	<ul style="list-style-type: none"> <li>• Equipment to produce a pile of up to 450 mm diameter</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The unit selected for the test must be in serviceable condition and conform with current legislation</li> <li>• Depth of all piles to be 6 metres (or as specified for working operations)</li> <li>• The user's manual or other information source must be with the rig</li> <li>• All lifting accessories must be fit for purpose and certificated</li> <li>• The weight of all loads must be known</li> <li>• Specification detailing location, type and depth of piles</li> </ul>

## ACTIVITY

### Instructions

Sequence	<ul style="list-style-type: none"> <li>Activity 1 must be undertaken at the start of the test</li> <li>Activities 5 and 6 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Setting up for work	<ol style="list-style-type: none"> <li>Transport the rig components to the work position</li> <li>Position, rig and set for boring work</li> </ol>
Working tasks (refer to specifications)	<ol style="list-style-type: none"> <li>Form bored piles to specification</li> <li>Ensure the bore is plumb throughout the boring activity</li> </ol>
Completing work	<ol style="list-style-type: none"> <li>Carry out shut-down procedures</li> <li>Clean the area and dismantle the rig ready for transportation</li> </ol>
Notes	<ul style="list-style-type: none"> <li>The test may be carried out during actual work and discrepancies allowed for compared to the stated activities and pile types</li> <li>A minimum of 4 piles must be formed to completion</li> <li>If applicable, if the machine (engine) is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

### Activity measurements

Pile placing	<ul style="list-style-type: none"> <li>Within 100 mm of the given position</li> </ul>
Pile measurement	<ul style="list-style-type: none"> <li>Maximum of 10 degrees from vertical</li> </ul>
Pile depth	<ul style="list-style-type: none"> <li>6 metres and within 100 mm of the given depth</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>The test must be completed within 2 hours and 15 minutes</li> </ul>

# Piling Rig

## Tripod

A30

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Setting up	1 Area checked and safe prior to setting up for bored works		
	2 Rig positioning accurately for bored works		
	3 Ensuring rig was level prior to bored works		
	4 Safety devices checked for function		
	5 Stability of area checked prior to bored works		
	6 Mechanical components checked for function prior to work (or responses to relevant questions)		
	7 Area checked and safe prior to setting up for bored works		
Working	8 Created each bore to the specification		
	9 Soil removed to the agreed area (if applicable)		
	10 Formed pile to the specification		
	11 Did not exceed rig's capacity		
	12 Rig stability maintained		
	13 Instructions conformed with		
Completing	14 Carried out shut down procedures		
	15 Rig and components cleaned of spoil/materials		
	16 Dismantled rig following required procedures		
Other	17 Legislation, manufacturers' and health and safety requirements complied with		
	18 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Setting up	1 Standing at the operator's station			2	
	2 Full observation whilst using the rig			2	
	3 Rigging procedures clarified with additional team members			2	
Working	4 Following manual handling procedures			2	
	5 Checking regularly for depth and pile formation			2	
	6 Using planned cycles of operation			2	
	7 Sequence of using boring (winch) controls			1	
	8 Smooth use of boring (winch) controls			1	
<b>Not exceeded 8 penalties</b>			Total penalties		
			Achieved / Not achieved		



# Ride-on Roller

A31

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>Ride-on Roller</li> </ul>
Area	<ul style="list-style-type: none"> <li>(Option 1) Single straight run for compacting, with hard-standing, kerbed edge on one side and an unsupported edge on the opposite side</li> </ul> <p>OR</p> <ul style="list-style-type: none"> <li>(Option 2) Several straight runs for compacting, with hard-standing, kerbed edge on one run and an unsupported edge on another run</li> </ul> <p>PLUS</p> <ul style="list-style-type: none"> <li>A radius for compacting, with supported edges</li> </ul> <p>PLUS</p> <ul style="list-style-type: none"> <li>A length of uneven ground and a gentle gradient (for travelling purposes)</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>Material for compacting</li> <li>Items/objects to create restrictions for manoeuvring</li> </ul>
Notes	<ul style="list-style-type: none"> <li>The machine selected for the test must be in serviceable condition, fitted with a seatbelt and ROPS frame/cab, and conform with current legislation</li> <li>The operator's manual must be with the ride-on roller</li> <li>The single straight run (Option 1) must be at least 20 metres in length and 3 x the drum width. 15 metres of each run must be uncompacted and the remaining may form part of the hard standing</li> <li>Each straight run (Option 2) must be at least 20 metres in length and 1.5 x the drum width of the roller respectively. 15 metres of each run must be uncompacted and the remaining may form part of the hard standing</li> <li>The radius must have a curve of between 5 and 10 metres and 3 x the drum width and at least 3 kerb lengths of straight run at each end</li> <li>The radius must form part of one of the straight runs</li> <li>The material selected for compacting must clearly show areas compacted by the roller such as overlaps and direction changes</li> <li>The uneven ground must be safe for travelling on but be of a nature that forces the candidate to travel a slow speed</li> <li>The test is designed to reflect general granular sub-base type compaction, not bitumen rolling</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activities 2, 4 and 5 can be undertaken in any order during the test</li> <li>• Activity 6 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1 Complete all manufacturers' pre-start and running checks and prepare the ride-on roller for travel
Travelling & manoeuvring (refer to specifications)	2 Travel to the work area and: <ul style="list-style-type: none"> <li>– pass through a restriction (in forward and reverse)</li> <li>– drive up and down the gradient</li> <li>– drive on the uneven ground</li> </ul>
Setting up for work	3 Prepare an exclusion zone and set the ride-on roller for the relevant work
Working tasks (refer to specifications)	4 Compact the straight run or runs. Several objects must be placed centrally on one of the runs (simulating ironwork) 5 Compact the radius
Shutting down	6 Park the ride-on roller and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• Compaction must take place up to the supported and unsupported edges, although the closeness will be dependent upon the roller and material type</li> <li>• For the purposes of the test, an overlap will be constituted as no more or less than one quarter of the overall drum width</li> <li>• For the purposes of the test, a pass is constituted as compacting in one direction and returning in the same track</li> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Travel restrictions	<ul style="list-style-type: none"> <li>• 500 mm</li> </ul>
Compacting duty	<ul style="list-style-type: none"> <li>• Three passes. The initial pass without vibration and the remaining passes with vibration (if fitted)</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 1 hour and 15 minutes</li> </ul>

# Ride-on Roller

**A31**

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Seatbelt worn		
	3 Roller set for travel		
	4 Restrictions and hazards cleared		
	5 Control maintained when travelling on uneven ground		
Setting up	6 Control maintained when travelling on gradient or ramp		
	7 Compacting area checked, segregated and clear of hazards prior to work		
Working	8 Sited and set for compacting duties		
	9 Start position for rolling pass		
	10 Travel speed during compaction		
	11 Avoided stopping on uncompacted material		
	12 Compacted in straight lines (straight runs only)		
	13 Stopping points staggered		
	14 Safe distance from sides of unsupported edges maintained		
Shutdown	15 Overlapped spread material when compacting		
	16 All areas compacted to given specification as per activity measurements		
Other	17 All shutdown and securing procedures		
	18 Legislation, manufacturers' and health and safety requirements complied with		
	19 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Ride-on roller mounting and dismounting		1	
	2	Full observation before moving and reversing		3	
	3	Full observation whilst travelling and reversing		2	
	4	Travel speed matching ground type and conditions		1	
Working	5	Control of throttle /speed selection		1	
	6	Deploying of vibration system (if available)		1	
	7	Overlap of passes by correct amount		2	
	8	Repositioning/turning on compacted/hard standing areas		2	
	9	Impacting supported edges		2	
	10	No scuffing of the surface		2	
	11	Minimising short working cycles		2	
	12	Smooth use of steering and hydraulic controls		2	
<b>Not exceeded 8 penalties</b>			Total penalties		
			Achieved / Not achieved		



# Soil/Landfill Compactor

A32

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Soil/Landfill Compactor fitted with a standard blade</li> </ul>
Area	<p>Landfill compactor:</p> <ul style="list-style-type: none"> <li>• Landfill type ground, clear of hazards which must include: <ul style="list-style-type: none"> <li>– sloping face for waste depositing</li> <li>– rough terrain</li> </ul> </li> </ul> <p>Soil compactor:</p> <ul style="list-style-type: none"> <li>• Level ground, clear of hazards which must include: <ul style="list-style-type: none"> <li>– rough terrain</li> <li>– slope or slopes</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Items to create restrictions for manoeuvring</li> <li>• Delivery of relevant spreadable material or materials</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the compactor</li> <li>• Soil compactor – The slope must have at least an 18% (1:5.5) incline with sufficient manoeuvring room at the top, or a straight ramp with an up and down route with a flat area at the summit</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activities 2 and 4 can be undertaken at any time during the test</li> <li>• Activity 6 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1 Complete all manufacturers' pre-start and running checks and prepare the compactor for travel
Travelling & manoeuvring (refer to specifications)	2 Travel to the work area and: <ul style="list-style-type: none"> <li>– travel up and down the slope (soil compactor only)</li> <li>– pass through a restriction (in forward and reverse)</li> <li>– travel over rough terrain</li> </ul>
Setting up for work	3 Prepare and set the compactor for the relevant work
Working tasks (refer to specifications)	4 Spread dumped loads in even layers on the sloping face (Landfill compactors) or on a level area (Soil compactors)
Completing work	5 Form a cover over the spread material and level
Shutting down	6 Park the compactor and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• For the purposes of the test, a pass is constituted as compacting in one direction and returning in the same track</li> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Travel restrictions	<ul style="list-style-type: none"> <li>• 800 mm</li> </ul>
Compacting duty	<ul style="list-style-type: none"> <li>• Spread material to be compacted using a minimum of 3 passes</li> </ul>
Work efficiency	<ul style="list-style-type: none"> <li>• Machine to be operated at 75% of maximum working capacity and using full loads on the blade</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 1 hour and 45 minutes</li> </ul>

# Soil/Landfill Compactor

**A32**

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Compactor set for travel		
	3 Restrictions cleared		
	4 Encountered hazards cleared		
	5 Control maintained when ascending and descending inclines		
Setting up	6 Allocated area checked and clear of hazards prior to compacting		
Working	7 Full blade loads maintained		
	8 Starting position and gear/speed selection		
	9 Avoided stopping on uncompacted material		
	10 Even spread of material maintained		
	11 Bulk items placed at bottom of slope		
	12 Blade lowered and adjusted smoothly during work		
	13 Overlapped spread material		
Completing	14 Compacted to given specification		
	15 Cover material evenly spread and consistent		
Shutdown	16 All shutdown and securing procedures		
Other	17 Legislation, manufacturers' and health and safety requirements complied with		
	18 Test completed within the given time		
<b>All of these items must be awarded</b>		Achieved / Not achieved	

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Compactor mounting and dismounting		1	
	2	Full observation before moving and reversing		3	
	3	Full observation whilst travelling and reversing		2	
	4	Travel speed matching to the ground type and conditions		1	
Working	5	Control of throttle and speed selection		2	
	6	Siting and setting for compacting		2	
	7	No evidence of windrows		2	
	8	Feathering out at the end of a pass		1	
	9	Overrunning after dumping load		2	
	10	Minimising short working cycles		2	
	11	Smooth use of steering and hydraulic controls		1	
	12	Sequence of using steering/hydraulic controls		1	
<b>Not exceeded 8 penalties</b>				Total penalties	
					Achieved / Not achieved



# Agricultural Tractor

**A33**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Agricultural Tractor equipped with trailer towing facilities and 3-point linkage for implement mounting</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include:             <ul style="list-style-type: none"> <li>– rough undulating terrain</li> <li>– slope or slopes</li> <li>– confined space for reversing</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Compatible loaded two wheel trailer or fully laden bowser</li> <li>• 3-point mountable implement</li> <li>• A PTO-driven implement</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must meet be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the tractor</li> <li>• The slope must have at least an 18% (1:5.5) incline with sufficient manoeuvring room at the top, or a straight ramp with an up and down route with a flat area at the summit</li> <li>• The PTO-driven implement may be used in conjunction with the trailer/bowser or mounted implement</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activity 2 may be spread over the period of the test</li> <li>• Activities 4, 5 and 6 may be carried out in any order during the test</li> <li>• Activity 6 may be combined with activity 4 or 5</li> <li>• Activity 8 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1 Complete all manufacturers' pre-start and running checks and prepare the tractor for travel
Travelling & manoeuvring (refer to specifications)	2 With the trailer and mounted implement: <ul style="list-style-type: none"> <li>– travel up and down the slope</li> <li>– travel over rough terrain</li> </ul> and additionally with the trailer: <ul style="list-style-type: none"> <li>– stop and restart on the incline in the up direction</li> <li>– carry out sharp left- and right-hand turns</li> <li>– reverse into a confined space</li> </ul>
Setting up for work	3 Position and prepare the tractor for all work
Working tasks (refer to specifications)	4 Attach the trailer and carry out activity 2. On completion, disconnect the trailer with the confined area 5 Attach the 3-point linkage implement and carry out activity 2. On completion, disconnect the implement 6 Connect the PTO driven implement and run to full speed to ensure correct functioning. On completion, detach the PTO driveline
Completing work	7 Leave all implements, trailers and components safe and secure
Shutting down	8 Park the tractor and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• The trailer must be reversed into a confined area that is at least the length of the trailer</li> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Reversing direction	<ul style="list-style-type: none"> <li>• 800 mm</li> </ul>
Reversing restriction	<ul style="list-style-type: none"> <li>• 1 metre</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 1 hour and 45 minutes</li> </ul>

# Agricultural Tractor

**A33**

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Tractor set for travel		
	3 Restrictions and hazards cleared		
	4 Full control maintained when ascending and descending slopes		
Setting up	5 No opposite movement of intended direction when restarting on slopes		
	6 Allocated area checked and clear of hazards prior to work		
Working	7 Positioned the tractor for the relevant work		
	8 Trailer attached and disconnected using the correct sequence		
	9 Mounted implement attached and disconnected using the correct sequence		
	10 PTO implement attached and disconnected using the correct sequence		
	11 Mounted implement secured and stable prior to travel		
	12 PTO driveline components checked for condition prior to connection		
	13 PTO shaft secured and fully locked onto tractor and implement		
	14 Sequence of starting and stopping the PTO driveline		
Completing	15 PTO driveline checked for safe running		
	16 PTO driveline secured after disconnection		
Shutdown	17 All implements, trailers and components safe and secure after disconnecting		
Other	18 All shutdown and securing procedures		
	19 Legislation, manufacturers' and health and safety requirements complied with		
	20 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Tractor mounting and dismounting		1	
	2	Full observation before moving		2	
	3	Full observation whilst travelling		2	
	4	Full observation before and during reversing		3	
Working	5	Transmission drive engaged smoothly from rest		1	
	6	Travel speed matches ground type and conditions		2	
	7	Gear ratios match ground speed		1	
	8	Tractor positioning within 3 attempts when connecting trailer		2	
	9	Reversing into confined space within 3 attempts		2	
	10	Sequence of using hydraulic controls		1	
	11	Smooth use of steering and braking controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Crawler-Tractor/Dozer

**A34**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Crawler Dozer fitted with a standard, tilting blade</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include: <ul style="list-style-type: none"> <li>– level area for excavating</li> <li>– embankment</li> <li>– rough terrain</li> <li>– slope or slopes</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Items to create restrictions for manoeuvring</li> <li>• Laser equipped measuring equipment to ensure trench specifications are met</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the dozer</li> <li>• The slope must have at least an 18% (1:5.5) incline with sufficient manoeuvring room at the top, or a straight ramp with an up and down route with a flat area at the summit</li> <li>• The nominated area must be safe to allow excavations up to 2 metres deep and 30 metres long</li> <li>• The embankment must be at least 30 metres in length</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activities 2, 4 and 5 can be undertaken at any time during the test</li> <li>• Activity 7 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1 Complete all manufacturers' pre-start and running checks and prepare the dozer for travel
Travelling & manoeuvring (refer to specifications)	2 Travel to the work area and: <ul style="list-style-type: none"> <li>– travel up and down the slope</li> <li>– pass through a restriction</li> <li>– travel over rough terrain</li> </ul>
Setting up for work	3 Prepare and set the dozer for the relevant work
Working tasks (refer to specifications)	4 Produce a straight trench to the specified dimensions and form a stockpile 5 Side cast material from the embankment to the specified dimensions 6 Reinststate the work area back to the original state
Shutting down	7 Park the dozer and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Travel restrictions	<ul style="list-style-type: none"> <li>• 800 mm</li> </ul>
Trench depth	<ul style="list-style-type: none"> <li>• 1.0 metre <math>\pm 35</math> mm and straight within <math>\pm 60</math> mm</li> </ul>
Trench length	<ul style="list-style-type: none"> <li>• Level area – minimum of 10 metres in length</li> </ul>
Embankment	<ul style="list-style-type: none"> <li>• 1 x blade width for a minimum length of 30 metres</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 2 hours and 45 minutes</li> </ul>

# Crawler-Tractor/Dozer

**A34**

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
	2 Dozer set for travel		
Travelling	3 Restrictions and hazards cleared		
	4 Control maintained when ascending and descending inclines		
Setting up	5 Allocated area checked and clear of hazards prior to excavating		
Working	6 Full blade loads maintained (except for finishing work)		
	7 Depth of cut controlled		
	8 Trench conformed to the stated sizes and tolerances		
	9 Embankment trimmed to specification		
	10 Short cycles of work maintained		
	11 Blade lowered and adjusted smoothly during work		
	12 Material feathered out after the cut		
Shutdown	13 Excavated area reinstated back to the original contours		
Other	14 All shutdown and securing procedures		
	15 Legislation, manufacturers' and health and safety requirements complied with		
	16 Test completed within the given time		
<b>All of these items must be awarded</b>		Achieved / Not achieved	

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1 Dozer mounting and dismounting			1	
	2 Full observation before moving and reversing			3	
	3 Full observation whilst travelling and reversing			2	
	4 Travel speed matched to the ground type and conditions			1	
Working	5 Control of throttle and gear selection			2	
	6 Tight turns avoided when travelling			1	
	7 Site and set for excavating			2	
	8 Trench excavated in layers			2	
	9 Back-blading with the blade			2	
	10 Single stockpile formed at end of trench			2	
	11 Overrunning after dumping load			2	
	12 Smooth use of steering and hydraulic controls			1	
	13 Sequence of using steering/hydraulic controls			1	
<b>Not exceeded 8 penalties</b>			Total penalties		
			Achieved / Not achieved		



# Crawler-Tractor/Side Boom

**A35**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Crawler-tractor chassis with side-boom equipment</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground with level and uneven terrain</li> <li>• Trench of at least 1 metre deep for the placing of steel piping</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Lifting accessories for the piping</li> <li>• Items to create restrictions for manoeuvring</li> <li>• Slinger/signaller assistance</li> </ul>
Loads	<ul style="list-style-type: none"> <li>• Steel piping</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must be in serviceable condition and conform with current legislation</li> <li>• The steel piping must be a minimum of 4 metres long and at least 0.5 of a metre in diameter</li> <li>• The operator's manual must be with the side boom</li> <li>• Maximum radius equates to the configuration of the crane being used for the test</li> <li>• The slinger and signaller must be certificated and competent</li> <li>• All lifting accessories must be fit for purpose and certificated</li> <li>• The weight of all loads must be known</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>Activity 1 must be undertaken at the start of the test</li> <li>Activity 9 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1 Complete all manufacturers' pre-start and running checks
Travelling & manoeuvring (refer to specifications)	2 Prepare the side boom for travel 3 Travel to the work area and: <ul style="list-style-type: none"> <li>– travel up and down the slope</li> <li>– pass through a restriction</li> <li>– travel over rough terrain</li> </ul>
Setting up for work	4 Position, prepare and set the side boom for each lift
Working tasks (refer to specifications)	5 Pick up the pipe and travel over rough terrain before arriving at the trench 6 Deposit the pipe into the trench at a given position following given signals. On completion, detach the pipe 7 Attach and remove the pipe from the trench and place back at the original start point
Completing work	8 Stow all equipment and return the vehicle to the park position
Shutting down	9 Park the side boom and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>The instructor must check that the candidate has programmed the RCI or load moment indicator correctly before carrying out each activity</li> <li>On activity 6, there must be a change of radius when placing the pipe into the trench</li> <li>If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Reversing restriction	<ul style="list-style-type: none"> <li>800 mm</li> </ul>
Load placing	<ul style="list-style-type: none"> <li>100 mm of a given position</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>The test must be completed within 2 hours and 15 minutes</li> </ul>

# Crawler-Tractor/Side Boom

# A35

## Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Side boom set for travel		
	3 Restrictions cleared		
	4 Travelled safely with load		
	5 Encountered hazards cleared		
Setting up	6 Area checked and safe prior to setting up for lifting and depositing loads		
	7 Ensured ground conditions and lifting and placement site		
	8 Side boom positioning prior to lifting loads		
	9 Ensured side boom was level prior to lifting loads		
	10 RCI/LMI programmed for all lifting duties		
Working	11 Communication arrangements confirmed with the signaller		
	12 SWL not exceeded at all times		
	13 Load integrity and stability maintained at all times		
	14 Loads did not contact any obstructions		
	15 Load placed in a retrievable position (no free-fall)		
	16 Lifted, moved and lowered all loads in a controlled manner		
	17 Route assessed and travelled with the suspended load in a controlled manner		
	18 Instructions conformed with		
Completing	19 All lifting accessories stowed and secure		
Shutdown	20 Parked in appropriate place		
	21 All shutdown and securing procedures		
Other	22 Legislation, manufacturers' and health and safety requirements complied with		
	23 Test completed within the given time		
<b>All of these items must be awarded</b>		Achieved / Not achieved	

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1	Side boom mounting and dismounting		1	
	2	Full observation before moving and reversing		3	
	3	Full observation whilst travelling		2	
	4	Drive sprockets kept to rear when travelling		1	
	5	Lifting accessories clear of the ground		1	
	6	Travel speeds match ground type and conditions		2	
Working	7	Load placing at the given points within the given tolerance		2	
	8	Checking load for integrity prior to travel		2	
	9	Lifting load vertically		2	
	10	Load lowering control		2	
	11	Sequence of using hydraulic/lifting controls		2	
	12	Smooth use of the steering, braking and hydraulic controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Lorry Loader

**A36**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>Lorry Loader mounted on a host carrier vehicle</li> </ul>
Area	<ul style="list-style-type: none"> <li>Facilities for vehicle travel and parking</li> <li>Flat firm area to allow lifting and placing of loads</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>Measuring tape for measuring the maximum radius of the crane</li> <li>Applicable lifting accessories to lift and secure all loads</li> <li>Items to create restrictions for manoeuvring</li> </ul>
Loads	<ul style="list-style-type: none"> <li><b>LOAD 1</b> <ul style="list-style-type: none"> <li>Hook – 1 x load at least 75% of the crane's maximum rated capacity</li> <li>Clamshell bucket – 4 FULL bucket loads of a spoil-type material</li> <li>Hydraulic clamp – 1 x load at least 75% of the crane's maximum rated capacity</li> </ul> </li> <li><b>LOAD 2</b> <ul style="list-style-type: none"> <li>Hook – 1 x load at least 5 metres in length with an offset centre of gravity</li> <li>Clamshell bucket – 4 FULL bucket loads of a spoil-type material</li> <li>Hydraulic clamp – 1 x load with an offset centre of gravity</li> </ul> </li> <li><b>LOAD 3</b> <ul style="list-style-type: none"> <li>Hook – 1 x load at least 75% of the crane's maximum rated capacity at full horizontal reach</li> <li>Clamshell bucket – 4 bucket loads of a spoil-type material</li> <li>Hydraulic clamp – 1 x load at least 75% of the crane's maximum rated capacity at full horizontal reach</li> </ul> </li> </ul>
Notes	<ul style="list-style-type: none"> <li>The crane selected for the test must have at least a lifting capacity of 2.7 tonnes, meet the specification for the required endorsement, be in serviceable condition and conform with current legislation</li> <li>The host vehicle selected for the test must be able to carry and transport the required loads, be in serviceable condition and conform with current legislation</li> <li>Maximum radius equates to the configuration of the crane being used for the test</li> <li>The operator's manuals for both host vehicle and crane must be available</li> <li>All lifting accessories must be fit for purpose and certificated</li> <li>The persons attaching/detaching and securing loads to the hook must be trained in selecting and using the relevant lifting accessories</li> <li>The weight of all loads must be known</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>Activity 1 must be undertaken at the start of the test</li> <li>Activity 4 may be undertaken loaded or unloaded and undertaken at any time during the test</li> <li>Activity 10 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1 Complete all manufacturers' pre-start and running checks
Travelling & manoeuvring (refer to specifications)	2 Prepare the vehicle and crane for road travel (loaded and unloaded) 3 Travel to and within the work area (loaded and unloaded) 4 Reverse into a confined space
Setting up for work	5 Position the vehicle, prepare and set the crane and load for each lift
Working tasks (refer to specifications)	6 Lift LOADS 1, 2 and 3 and place onto the vehicle bed (see notes below) 7 Secure all loads in preparation for travel 8 Remove and place LOADS 1, 2 and 3 (to different locations from activity 6) 9 Stow all equipment and return the vehicle to the park position
Shutting down	10 Park the vehicle and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li><b>LOAD 1</b> <ul style="list-style-type: none"> <li>Hook – Lifted at minimum radius and placed in a given position</li> <li>Clamshell bucket – Lifted at minimum radius on the nearside of the vehicle and placed at the rear of the body</li> <li>Hydraulic clamp – Lifted at minimum radius and placed in a given position</li> </ul> </li> <li><b>LOAD 2</b> <ul style="list-style-type: none"> <li>Hook – Lifted at minimum radius from the opposite side from Load 1 and placed in a given position</li> <li>Clamshell bucket – Lifted at minimum radius on the offside of the vehicle and placed at the front of the body</li> <li>Hydraulic clamp – Lifted at minimum radius from the opposite side from Load 1 and placed in a given position</li> </ul> </li> <li><b>LOAD 3</b> <ul style="list-style-type: none"> <li>Hook – 1 x load at least 75% of the crane's maximum reach and placed in a given position</li> <li>Clamshell bucket – Lifted at least 75% of the crane's maximum reach and placed in the centre of the body</li> <li>Hydraulic clamp – 1 x load at least 75% of the crane's maximum reach and placed in a given position</li> </ul> </li> <li>The Tester must check that the Candidate has programmed the RCI/LMI correctly before carrying out each activity (if applicable)</li> <li>If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

### Activity measurements

Reversing restriction	<ul style="list-style-type: none"><li>• No wider than the width of the vehicle plus 900 mm</li></ul>
Load placing	<ul style="list-style-type: none"><li>• 100 mm of a given position</li></ul>
Test timings	<ul style="list-style-type: none"><li>• The test must be completed within 1 hour and 45 minutes</li></ul>



# Lorry Loader

**A36**

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name:	Candidate ref.
	Tester ref.	Date of test
	Endorsement A <input type="checkbox"/> Endorsement B <input type="checkbox"/>	Start time of test
	Endorsement C <input type="checkbox"/>	Duration
	Make and model	

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions – vehicle, loader and attachment)		
	2 Vehicle and crane set for road travel		
Travelling	3 Stabilisers fully stowed and locked		
	4 Restrictions and hazards cleared		
	5 Area checked and safe prior to setting up for lifting and depositing loads		
Setting up	6 Vehicle positioning prior to lifting loads		
	7 Area secured		
	8 Stabilisers set		
	9 Ensured vehicle was level prior to lifting loads		
	10 Selected and assessed the appropriate lifting accessories (Endorsement A only)		
	11 Engaged pump drive systems (if applicable)		
Working	12 Vehicle stability maintained at all times		
	13 Load integrity and stability maintained at all times		
	14 Loads did not contact any obstructions		
	15 Loads kept low to ground (except when directly next to vehicle body)		
	16 Lifted, moved and placed all loads in a controlled manner		
Shutdown	17 Loads secured and stable on vehicle bed/in tipping body		
	18 Crane re-configuring from lifting to travelling duties		
	19 Parked in appropriate place		
Other	20 All shutdown and securing procedures		
	21 Legislation, manufacturers' and health and safety requirements complied with		
	22 Test completed within the given time		
<b>All of these items must be awarded</b>		Achieved / Not achieved	

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1 Vehicle mounting and dismounting			1	
	2 Full observation before moving and reversing			3	
	3 Full observation whilst travelling			2	
	4 Full observation before slewing the crane			2	
	5 Gear ratios appropriate for travel speeds			1	
	6 Controlled load swings			2	
	7 Lifting accessories kept clear of the ground			1	
Working	8 Full bucket loads maintained (except to avoid exceeding SWL)			2	
	9 All loads placed at the given points within the given tolerance			2	
	10 Each load lifted clear of surface and checked for integrity			2	
	11 All loads vertically lifted			2	
	12 Sequence of using hydraulic/lifting controls			2	
	13 Smooth use of the steering, braking and hydraulic controls			1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Trencher

**A37**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Trencher</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include:             <ul style="list-style-type: none"> <li>– level area and inclines to allow excavations up to 2.0 metres deep</li> <li>– rough terrain</li> <li>– slope or slopes</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Load-carrying vehicle for spoil/material (optional)</li> <li>• Items to create restrictions for manoeuvring</li> <li>• Laser equipped measuring equipment to ensure trench specifications are met</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must meet the specification for the required endorsement, be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the excavator</li> <li>• The slope must have at least an 18% (1:5.5) incline with sufficient manoeuvring room at the top, or a straight ramp with an up and down route with a flat area at the summit</li> <li>• The load-carrying vehicle, if used, must be able to accommodate all the spoil extracted whilst excavating one of the trenches</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>• Activities 1 – 7 to be undertaken in a sequential order except</li> <li>• Activity 6 to be undertaken with activities 4 and 5</li> <li>• Activity 2 can be undertaken at any time during the test</li> <li>• Activity 7 must be undertaken on completion of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1 Complete all manufacturers' pre-start and running checks and prepare the trencher for travel
Travelling & manoeuvring (refer to specifications)	2 Travel to the work area and: <ul style="list-style-type: none"> <li>– travel up and down the slope</li> <li>– pass through a restriction</li> <li>– travel over rough terrain</li> </ul>
Setting up for work	3 Prepare and set the trencher for the relevant work
Working tasks (refer to specifications)	4 Complete 2 x vertical trenches in a 'T' formation 5 Complete a straight excavation with vertical sides along the sloping ground 6 Load material into a vehicle or in windrows
Shutting down	7 Park the trencher and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• If the machine is hot, checks unable to be carried out (i.e. coolant) may be assessed by the Tester using verbal questions</li> </ul>

#### Activity measurements

Travel restrictions	<ul style="list-style-type: none"> <li>• 600 mm</li> </ul>
Trench depth	<ul style="list-style-type: none"> <li>• 1.0 metre <math>\pm 35</math> mm and straight within <math>\pm 60</math> mm</li> </ul>
Trench lengths	<ul style="list-style-type: none"> <li>• Each trench to be a minimum of 10 metres long</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 1 hour and 15 minutes</li> </ul>

# Trencher

**A37**

Technical Test – Practical

<b>Basic details</b>	Test reference	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Trencher set for travel		
	3 Restrictions and hazards cleared		
Setting up	4 Maintained control on inclines		
	5 Allocated area checked and clear of hazards prior to excavating		
Working	6 Trencher laterally level whilst excavating		
	7 Chain/wheel sequence of events for ground engagement followed		
	8 Excavated material clear of trench		
	9 Trenches conform to the stated sizes and tolerances		
	10 Conveyer(s) set to remove spoil clear of cut		
Shutdown	11 Cutting speed matched to load		
	12 Depth controlled on sloping ground		
Other	13 All shutdown and securing procedures		
	14 Legislation, manufacturers' and health and safety requirements complied with		
	15 Test completed within the given time		

**All of these items must be awarded**

Achieved / Not achieved

## FAULTS

**Candidate incorrectly carried out the following:**

		Fault	Mark	Penalty
Travelling	1 Trencher mounting and dismounting		1	
	2 Full observation before moving		2	
	3 Full observation whilst travelling		2	
	4 Full observation before reversing		3	
	5 Observation maintained whilst excavating		2	
	6 Drive sprockets kept to the rear when travelling (tracked units only)		1	
	7 Travel speed matched to the ground type and conditions		1	
	8 Tight turns avoided when travelling (tracked machines only)		1	
Working	9 Site and set for excavating		2	
	10 Edges of the excavations clean and clear		2	
	11 Material cleanly placed into the loading vehicle (where applicable)		2	
	12 Use of steering/hydraulic controls		2	

**Not exceeded 8 penalties**

Total penalties

Achieved / Not achieved



# Skip Handler

**A39**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Skip Handler</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Facilities for vehicle travel and parking</li> <li>• Uneven but firm terrain</li> <li>• Flat, firm area to allow lifting and placing of skips/bodies and the tipping of loads</li> <li>• Structure with limited headroom</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Items to create restrictions for manoeuvring</li> <li>• Items to create a restricted headroom environment</li> </ul>
Loads	<ul style="list-style-type: none"> <li>• Fully loaded and empty skips or bodies</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The skip handler selected for the test must be able to carry fully loaded skips or bodies, in serviceable condition and conform with current legislation</li> <li>• There should be sufficient area to allow total vehicle travel for a distance of at least 1 Kilometre</li> <li>• The operator's manuals for the skip handler must be available</li> <li>• All lifting accessories must be fit for purpose and certificated</li> <li>• The weight of all loads must be known</li> </ul>

## ACTIVITY

**Instructions**

Sequence	<ul style="list-style-type: none"> <li>• Activity 1 must be undertaken at the start of the test</li> <li>• Activities 5 and 6 may be undertaken in any order</li> <li>• Activities 7 be incorporated with activity 5</li> <li>• Activity 8 may be incorporated with activity 6</li> <li>• Activity 10 must be undertaken at the end of the test</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	1 Complete all manufacturers' pre-start and running checks
Travelling & manoeuvring (refer to specifications)	2 Prepare the vehicle and skip handler for road travel (loaded and unloaded) 3 Travel to the relevant work area (loaded and unloaded) and: <ul style="list-style-type: none"> <li>– travel over uneven terrain</li> <li>– undertake tight left- and right-hand turns</li> </ul>
Setting up for work	4 Position, prepare and set the skip handler and load for each lift
Working tasks (refer to specifications)	5 Pick up an empty body or skip and carry out activity 2. On completion, deposit the skip/body at a different location 6 Pick up a fully loaded skip/body, secure in preparation for road travel and carry out activity 3. On completion, tip a load from the skip/body at a given position 7 Place a skip/body within a confined space. The vehicle is to be reversed in a straight line prior to entering the confined space 8 Retrieve a loaded skip or body from a restricted headroom location
Completing work	9 Stow all equipment and return the vehicle to the park position
Shutting down	10 Park the vehicle and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• The vehicle must be driven for a distance of at least 1 Kilometre for activity 6</li> <li>• The vehicle must be driven for a minimum distance of 10 metres before placing the skip/body within the confined space fro activity 7</li> </ul>

**Activity measurements**

Confined space restriction	<ul style="list-style-type: none"> <li>• No wider than the width of the vehicle plus 900 mm</li> </ul>
Skip/body placing	<ul style="list-style-type: none"> <li>• 800 mm of a given position</li> </ul>
Headroom restriction	<ul style="list-style-type: none"> <li>• Clearance of half of the height of the skip/body (being used for that activity)</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 1 hour and 45 minutes</li> </ul>

# Skip Handler

**A39**

Technical Test - Practical

<b>Basic details</b>	Test ref.	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)		
Travelling	2 Vehicle and skips/bodies set for road travel		
	3 Stabilisers fully stowed and locked		
	4 Skip/bodies locked/clamped to vehicle bed prior to movement		
	5 Travelled accordingly with the environment		
	6 Restrictions and hazards cleared		
Setting up	7 Area checked and safe prior to setting up for lifting and depositing loads		
	8 PTO/Hydraulic drive system engagement conformed with procedures		
	9 Stabilisers systems set and utilised		
	10 Ensured vehicle was level prior to lifting loads		
	11 Select and assess the appropriate lifting accessories		
Working	12 Vehicle stability maintained at all times		
	13 Securely connected lifting accessories and mechanisms		
	14 Vehicle and skip/body integrity and stability maintained at all times		
	15 Loads did not contact any obstructions		
	16 Lifted and placed all loads in a controlled manner		
	17 Loads secured and stable on vehicle bed		
	18 All skips/bodies sheeted/netted/covered to ensure to spillage of material		
	19 Tipped load at given point		
Completing	20 Skips/bodies placed at given points with tolerance		
Shutdown	21 Re-configured from lifting to travelling duties		
	22 Parked in appropriate place		
Other	23 All shutdown and securing procedures		
	24 Legislation, manufacturers' and health and safety requirements complied with		
	25 Test completed within the given time		

**All of these items must be awarded**

Achieved / Not achieved

## FAULTS

**Candidate incorrectly carried out the following:**

**Fault Mark Penalty**

Travelling and manoeuvring	1 Vehicle mounting and dismounting		1	
	2 Full observation before moving and reversing		3	
	3 Full observation whilst travelling and reversing		2	
	4 Engaging transmission drive smoothly from rest		1	
	5 Gear ratios appropriate for travel speeds		1	
	6 Travel speed matches ground type and conditions		2	
	7 Lifting accessories kept clear of the ground (where applicable)		1	
Working tasks	8 Positioning of vehicle for retrieving skips/bodies		2	
	9 Each load lifted clear of surface and checked for integrity		2	
	10 Drawing the vehicle in line with the skip/body		2	
	11 Sequence of using hydraulic/lifting controls		2	
	12 Smooth use of the steering, braking and hydraulic controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties	
				Achieved / Not achieved



# Slinger/Signaller

A40

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Lifting Equipment (Crane)</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards with:             <ul style="list-style-type: none"> <li>– sufficient area of at least the maximum operating radius of the crane</li> <li>– a structure allowing loads to be placed out of sight of the crane operator's cab</li> <li>– a flat area to allow lifting and placing of loads</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Measuring tape for measuring the maximum radius of the crane</li> <li>• Applicable lifting accessories for all loads with appropriate certification</li> <li>• Radios for verbal communication</li> <li>• Examples of the following for an identification activity:             <ul style="list-style-type: none"> <li>– 2 x unserviceable and 1 x serviceable web sling</li> <li>– 1 x unserviceable and 1 x serviceable chain sling</li> <li>– 1 x unserviceable and 1 x serviceable wire rope</li> <li>– 1 x out-of-date certificate</li> </ul> </li> <li>• Marking equipment or tags to identify unserviceable lifting accessories</li> </ul>
Loads	<ul style="list-style-type: none"> <li>• <b>LOAD 1</b> 1 x balanced</li> <li>• <b>LOAD 2</b> 1 x unbalanced</li> <li>• <b>LOAD 3</b> 1 x bundled at least 4 metres in length</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The crane selected for the test must be in serviceable condition, be equipped with a drum hoist and rope, have 360 degree slew capability on a turntable and able to vary the radii from minimum to maximum</li> <li>• The operator's manual must be with the crane</li> <li>• Maximum radius equates to the configuration of the crane being used for the test</li> <li>• The crane operator must be certificated and competent</li> <li>• All lifting accessories for LOADS 1, 2 and 3 must be fit for purpose, certificated and made available to the candidate</li> <li>• The unserviceable lifting accessories selected for the identification activity must have at least one visual defect</li> <li>• The weight of all loads must be known</li> </ul>

## ACTIVITY

**Instructions**

Sequence	<ul style="list-style-type: none"> <li>Activities 2 and 3 can be undertaken at any time during the test</li> <li>Activities 8–10 can be undertaken in any order</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparing for work	<ol style="list-style-type: none"> <li>1. Check equipment for function and serviceability</li> <li>2. From two or more examples each of a web sling, chain sling and wire rope, identify and impound all unserviceable items</li> <li>3. From at least two examples of lifting equipment certification, identify certification not meeting current legislation or regulations</li> </ol>
Setting up for work	<ol style="list-style-type: none"> <li>4. Establish the weight and features of each load prior to lifting</li> <li>5. Establish communication methods (visual and with radios) with the crane operator</li> <li>6. Select the relevant lifting accessory for the load to be lifted</li> </ol>
Working tasks (refer to specifications)	<ol style="list-style-type: none"> <li>7. Attach the selected lifting accessory and prepare each load for lifting</li> <li>8. Lift LOAD 1 from ground level, guide and land in a designated place out of sight of the crane operator. When landed, return the load to the original start point, land at a designated place and detach the accessory</li> <li>9. Lift LOAD 2 from ground level, guide to maximum radius of the crane, slew for at least 180 degrees and land at a designated place which is at mid-radius. When landed, detach the accessory</li> <li>10. Lift LOAD 3 from ground level, guide to minimum radius of the crane, slew for at least 360 degrees and land at a designated place which involves a change of radius. When landed, detach the accessory</li> </ol>
Completing work	<ol style="list-style-type: none"> <li>11. All loads to be made safe following each activity</li> <li>12. Collect and store all lifting accessories</li> </ol>
Notes	<ul style="list-style-type: none"> <li>Activity 8 must be undertaken twice, once using radio communication and once using hand signals</li> <li>For the purposes of the test, all hand communication shall conform with BS 7121: Part 1 2000</li> </ul>

**Activity measurements**

Load placing	<ul style="list-style-type: none"> <li>To be landed within 100 mm of a designated place</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>The test must be completed within 1 hour and 45 minutes</li> </ul>

# Slinger/Signaller

A40

## Technical Test – Practical

<b>Basic details</b>	Test reference	Candidate name
	Tester name	Candidate ref.
	Tester ref.	Date of test
	Make and model	Start time of test
		Duration

MANDATORY		Correctly carried out during the test?	Y / N
Preparing	1 Checked all accessories for function and serviceability		
	2 Checked certification is in-date and applied to relevant accessory		
	3 Unserviceable accessories identified		
	4 Unserviceable accessories impounded/clearly marked		
	5 Certification not in date identified		
Setting up	6 Landing positions checked and safe prior to lifting and depositing loads		
	7 Intended load travel route clear of hazards		
	8 Communication procedures established with others involved with the lift		
	9 Weight and C of G of each load established		
Working tasks	10 Relevant lifting accessories selected for each load		
	11 Lifting accessories attached to each load		
	12 SWL or WLL of lifting accessories not exceeded at all times		
	13 Load integrity and stability maintained at all times		
	14 Loads did not contact any obstructions		
	15 Communication clear and precise and understood by all involved		
	16 Crane hoist line vertical as each lift commences		
	17 Loads not damaged during lifting, moving and placing		
Completing	18 Load kept under control during movement		
	19 Loads secure and stable after removing accessories		
Other	20 Lifting accessories removed and stored		
	21 Legislation, manufacturers' and health and safety requirements complied with		
	22 Test completed within the given time		
<b>All of these items must be awarded</b>			Achieved / Not achieved

FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1 Full observation before moving the load			2	
	2 Full observation whilst guiding and landing the load			2	
Working	3 Load placing at the given points within the given tolerance			3	
	4 Lifting accessories clearing the ground			2	
	5 Each load lifted clear of surface for checking integrity prior to moving			3	
	6 Loads level during lifting and moving			2	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved

