

# Technical Test – Practical Contents

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# Loader Compressor

A41

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Purpose built Loader/Compressor with:             <ul style="list-style-type: none"> <li>– a general purpose bucket</li> <li>– compressor</li> <li>– ROPS and seat belt equipped</li> </ul> </li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards which must include a straight run for reversing</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Load-carrying vehicle for spoil/material</li> <li>• Stockpile of material for loading purposes and spread material for retrieval purposes</li> <li>• Pneumatic-operated breaker, hoses and fittings compatible with the compressor</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 load-carrying vehicle must have a minimum capacity equivalent to 4 full bucket loads of the loader/compressor being used for the test</li> <li>• Sufficient quantity of material for the activities</li> <li>• The straight run must be at least 20 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 3 and 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 loader/compressor for travel
Travelling & manoeuvring (refer to specifications)	2 Travel to the work area and pass through a restriction 3 Reverse the machine with a fully loaded bucket in a straight line
Setting up for work	4 Prepare and set the loader/compressor for the relevant work
Working tasks (refer to specifications)	5 Load the vehicle to capacity using material from the stockpile. On completion, this material to be re-deposited at the original place and spread 6 Load the vehicle to capacity using the spread material. On completion, this material to be deposited at the stockpile 7 Position the compressor at a given point and prepare the breaker for work. Test run the breaker. On completion, dismantle the breaker
Completing work	8 Clean and tidy the work area, stow all equipment and ready the machine for transport
Shutting down	9 Park the loader/compressor 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>
Reversing length	<ul style="list-style-type: none"> <li>Minimum of 20 metres</li> </ul>
Breaker / compressor distance	<ul style="list-style-type: none"> <li>At least 1.5 times the width of the bucket</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>The test must be completed within 1 hour and 45 minutes</li> </ul>

# Loader Compressor

A41

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

		Y / N
Preparing	1 All pre-start and running checks (or responses to relevant questions)	
Travelling	2 Loader compressor set for travel and all equipment securely stowed	
	3 Seatbelt worn	
	4 Restrictions and hazards cleared	
Setting up	5 Straight line kept during reversing activity	
	6 Allocated area checked and clear of hazards prior to extracting and loading	
	7 Sited for compressor operations	
	8 Machine immobilised for compressor operations	
	9 Condition of hoses and connectors checked	
	10 SWP of system checked for compatibility for tool and hoses	
	11 Checked compressor/receiver and SWP of system	
Working	12 Air hose routed safely and connected securely to tool and compressor	
	13 Compressor engaged following required procedures	
	14 Ensured no digging below ground level	
	15 Loading vehicle positioning prior to loading	
	16 Vehicle loaded to capacity	
	17 Vehicle evenly loaded	
Completing	18 Spillage of material kept to minimum	
	19 Tool checked for functionality	
	20 Loader compressor stable during loading activities	
Shutdown	21 Working area cleaned after loading	
	22 Shut down procedures on the compressor	
Other	23 Tools, hoses equipment dismantled and securely stowed/stored	
	24 All shutdown and securing procedures	
	25 Legislation, manufacturers' and health and safety requirements complied with	
	26 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 Loader compressor 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 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	

Not exceeded 8 penalties

Total penalties

Achieved / Not achieved



# Crusher

A42

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Mobile or Static Crusher</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards able to accommodate the:             <ul style="list-style-type: none"> <li>– crusher</li> <li>– loading method</li> <li>– unprocessed material</li> <li>– processed material</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Sufficient material fit for processing</li> <li>• Method of loading material into the crusher</li> <li>• Assistance for loading</li> <li>• Harnesses and other specific PPE</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must not be less than 10 tonnes operating weight, be in serviceable condition and conform with current legislation</li> <li>• The operator's manual must be with the crusher</li> <li>• A specification for processed stone must be made available to the candidate</li> <li>• The crusher may be used in combination with a screener allowing a combined test</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>Activity 2 must be undertaken at the start of the test</li> <li>Activity 11 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 Certify that the crusher is sited appropriately, stable, level and configured for crushing duties</li> <li>2 Complete all manufacturers' pre-start checks</li> </ol>
Setting up for work	<ol style="list-style-type: none"> <li>3 Ensure the material is suitable for crushing and set the crusher for the given specification</li> <li>4 Ensure discharge area(s) is(are) suitable for receiving processed material</li> <li>5 Agree the work process and signals with others involved in the crushing process</li> <li>6 Start the crusher and engage all systems</li> </ol>
Working tasks (refer to specifications)	<ol style="list-style-type: none"> <li>7 Convert uncrushed material into processed material</li> <li>8 Operate the crusher until a stockpile is produced that is 75% of the discharge conveyer height</li> <li>9 During the crushing process, carry out an emergency stop of operations</li> </ol>
Completing work	<ol style="list-style-type: none"> <li>10 Clear all material from the crusher and immediate area</li> </ol>
Shutting down	<ol style="list-style-type: none"> <li>11 Carry out shut-down and securing procedures</li> </ol>
Notes	<ul style="list-style-type: none"> <li>If this category is being used in combination with a screener, the work activity is complete only when a stockpile is produced that is 75% of the screener's discharge conveyer 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

Capacity	<ul style="list-style-type: none"> <li>75% of maximum working capacity (for the relevant material to be processed)</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>The test must be completed within 2 hours and 15 minutes</li> </ul>

# Crusher

A42

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 Positioned in relevant location		
	2 Checked for stability, security and configured for processing duties		
	3 All pre-start and running checks (or responses to relevant questions)		
	4 Function of emergency stop		
	5 Positioning and security of safety rails and other devices		
Setting up	6 Checked discharge area for hazards prior to processing		
	7 Crusher set to meet given specification		
	8 Communication systems coordinated with others involved in the processing		
	9 Crusher started and all systems engaged in required sequence		
	10 Harness worn and attached		
	11 All systems checked for function prior to processing		
Working	12 Power unit set to required speed		
	13 Material flow to crushing chamber controlled to prevent overloading		
	14 Output of processed material kept above 75% of maximum operating capacity		
	15 Effective communication with others used during processing		
	16 Emergency stop demonstrated during processing		
	17 Used appropriate procedures if blockages occurred		
	18 Operator stayed in a safe place during work		
Completing	19 No contact of discharge stockpile with the crusher		
	20 Crusher cleared of material and disposed of following guidelines/regulations		
Shutdown	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	Crusher mounting and dismounting		1	
	2	Full observation before starting and during processing		2	
	3	Unsuitable items removed before and during processing		3	
Working	4	Sequence of using controls		2	
	5	Smooth use of all controls		2	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved

<b>Tester observations</b>	<p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>
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<b>Sign off</b>	<p>I confirm that I have carried out the Practical Technical Test in accordance with CPCS requirements and that the candidate has:</p> <p style="text-align: right;">Achieved <input type="checkbox"/> Not achieved <input type="checkbox"/></p> <p><b>Candidate signature:</b> _____</p> <p><b>Tester signature:</b> _____</p>
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<b>CITB-ConstructionSkills Grant claim details</b>	<p>Grant is only payable for the award of a full Technical Test or Advanced Technical Test pass (both practical and theory elements to a maximum of 2 categories in any Grant Scheme year) in accordance with the full Grant Scheme rules.</p> <p>Employer <b>does not</b> intend to claim a Technical Test pass grant <input type="checkbox"/> No further information required</p> <p>Employer <b>does</b> intend to claim a Technical Test pass grant <input type="checkbox"/> Please complete additional fields below</p> <p><b>CITB-ConstructionSkills Levy Grant Registration Number (7 digits)</b> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p><b>Employer Name</b> _____</p> <p><b>Employer Postcode</b> _____</p>
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<b>Internal use</b>	<p> </p>
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# Screeener

**A43**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Mobile or Static Screeener having at least three discharge points</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Ground, clear of hazards able to accommodate the:             <ul style="list-style-type: none"> <li>– screeener</li> <li>– loading method</li> <li>– unscreened material</li> <li>– screened material</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Sufficient material fit for processing</li> <li>• Method of loading material into the screeener</li> <li>• Assistance for loading</li> <li>• Harness (if required) and other specific PPE</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The machine selected for the test must be not less than 10 tonnes operating weight, in serviceable condition and conform with current legislation</li> <li>• The operator’s manual must be with the screeener</li> <li>• A specification for screened material must be made available to the candidate</li> <li>• The screeener may be used in combination with a crusher allowing a combined test</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>Activity 2 must be undertaken at the start of the test</li> <li>Activity 11 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 Certify that the screener is sited appropriately, stable, level and configured for screening duties</li> <li>2 Complete all manufacturers' pre-start checks</li> </ol>
Setting up for work	<ol style="list-style-type: none"> <li>3 Ensure the material is suitable for screening and set the screener for the given specification</li> <li>4 Ensure discharge area(s) is(are) suitable for receiving screened material</li> <li>5 Agree the work process and signals with others involved in the screening process</li> <li>6 Start the screener and engage all systems</li> </ol>
Working tasks (refer to specifications)	<ol style="list-style-type: none"> <li>7 Screen material into at least three different sizes</li> <li>8 Operate the screener until a stockpile is produced that is 75% of the discharge conveyer height</li> <li>9 During the screening process, carry out an emergency stop</li> </ol>
Completing work	<ol style="list-style-type: none"> <li>10 Clear all material from the screener and immediate area</li> </ol>
Shutting down	<ol style="list-style-type: none"> <li>11 Carry out shut-down and securing procedures</li> </ol>
Notes	<ul style="list-style-type: none"> <li>If this category is being used in combination with a screener, the work activity is complete only when a stockpile is produced that is 75% of the screener's discharge conveyer 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

Capacity	<ul style="list-style-type: none"> <li>75% of maximum working capacity (for the relevant material to be screened)</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>The test must be completed within 1 hour and 15 minutes</li> </ul>

# Screeener

# A43

## 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 Positioned in relevant location		
	2 Checked for stability, security and configured for screening duties		
	3 All pre-start and running checks (or responses to relevant questions)		
	4 Function of emergency stop		
	5 Positioning and security of safety rails and other devices		
Setting up	6 Checked discharge area for hazards prior to screened		
	7 Checked reject screen was clear		
	8 Screeener set to meet given specification		
	9 Communication systems coordinated with others involved in the process		
	10 Screeener started and all systems engaged in required sequence		
	11 Harness donned and attached		
	12 All systems checked for function prior to screening		
Working	13 Engine set to required speed		
	14 Material flow controlled to prevent overloading		
	15 Output of screened material kept above 75% of maximum operating capacity		
	16 Maintained the screen head height		
	17 Effective communication with others used during screening		
	18 Emergency stop during screening		
	19 Used appropriate procedures if blockages occurred		
Completing	20 Candidate stayed in a safe place during work		
	21 No contact of discharge stockpile with the screeener		
Completing	22 Screeener cleared of material and disposed of following guidelines / regulations		
Shutdown	23 All shutdown 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 Screeener mounting and dismounting			1	
	2 Full observation before starting and during screening			2	
Working	3 Unsuitable items removed before and during screening			3	
	4 Sequence of using controls			2	
	5 Smooth use of all controls			2	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Concrete Pump

A44

Trailer Mounted

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>Trailer mounted 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>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 machine</li> <li>A pipeline specification must be constructed for the activity, requiring a pipe length of at least 10 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>Due to the nature of the equipment, all activities can be undertaken on different pumps, locations and different days. CPCS must be informed prior to any tests taking place and be given full details of any divided tests</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>Complete all manufacturers' pre-start and running checks</li> <li>Ensure that the trailer is secure and segregate the working area</li> </ol>
Setting up for work	<ol style="list-style-type: none"> <li>Prepare for the relevant work following the given pipeline specification</li> <li>Line the pipes and placing hoses with suitable grout</li> <li>Direct the material-carrying vehicle into position</li> </ol>
Working tasks (refer to specifications)	<ol style="list-style-type: none"> <li>Pump the material to the pour location whilst following signals</li> <li>Stop and restart the pour during work</li> </ol>
Completing work	<ol style="list-style-type: none"> <li>Clean all pumping system components</li> <li>Dismantle and store all components and ready the trailer for movement</li> </ol>
Shutting down	10 Carry out shut-down and securing procedures

### 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 1 hour and 30 minutes</li> </ul>

# Concrete Pump

A44

Trailer Mounted

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 Function of emergency stop		
	3 Positioned in relevant location		
Setting up	4 Allocated area checked and clear of hazards prior to pumping		
	5 Trailer level and secure prior to pumping		
	6 Outriggers set for pumping duties (as applicable)		
	7 Relevant piping selected		
	8 Pipeline extended to work area avoiding hazards		
	9 Couplings compatible with, connected and locked to piping		
Working	10 Flexible piping checked for condition		
	11 Pipeline anchored, supported and secured		
	12 Pipeline conformed with specification		
	13 Pump engaged following required sequence		
	14 Pump function checked		
Completing	15 Engine set to required speed		
	16 Pipeline grouted and lubricated with appropriate mix		
	17 Mix conformed with specification		
Shutdown	18 Material pumped to required location at the desired time		
	19 Waste material disposed of following guidelines and regulations		
Other	20 All components dismantled and stored		
	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	Truck mounting and dismounting		1	
	2	Full observation before moving and during pumping		2	
	3	Material-carrying vehicle positioned to allow unloading of material		3	
Working	4	Followed signaller's instructions		2	
	5	Components and trailer thoroughly cleaned after use		2	
	6	Sequence of using controls		2	
	7	Smooth use of all controls		2	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved

<b>Tester observations</b>	.....
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<b>Sign off</b>	I confirm that I have carried out the Practical Technical Test in accordance with CPCS requirements and that the candidate has:
	Achieved <input type="checkbox"/> Not achieved <input type="checkbox"/>
	<b>Candidate signature:</b> _____ <b>Tester signature:</b> _____

<b>CITB-ConstructionSkills Grant claim details</b>	Grant is only payable for the award of a full Technical Test or Advanced Technical Test pass (both practical and theory elements to a maximum of 2 categories in any Grant Scheme year) in accordance with the full Grant Scheme rules.							
	Employer <b>does not</b> intend to claim a Technical Test pass grant <input type="checkbox"/> No further information required							
	Employer <b>does</b> intend to claim a Technical Test pass grant <input type="checkbox"/> Please complete additional fields below							
	<b>CITB-ConstructionSkills Levy Grant Registration Number (7 digits)</b> <table border="1" style="display: inline-table;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>							
<b>Employer Name</b> _____								
<b>Employer Postcode</b> _____								

<b>Internal use</b>	
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# Piling Rig

Driven below 15 tonnes

**A45**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Piling rig configured for driven operations</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Facilities for rig travel and parking</li> <li>• Flat area to driven works to take place</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Driving equipment to install displacement piles</li> <li>• Crane for lifting operations (if required)</li> <li>• Suitable personnel to assist with the operations</li> <li>• Applicable lifting accessories for all loads (if required)</li> <li>• Items to create restrictions for manoeuvring</li> </ul>
Piles	<ul style="list-style-type: none"> <li>• At least one of the following pile types:               <ul style="list-style-type: none"> <li>– steel casings</li> <li>– steel box section</li> <li>– steel ‘H’ section</li> <li>– timber section</li> <li>– concrete section</li> </ul> </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>• Pile sizes to be at least 150 mm (as specified for working operations)</li> <li>• Depth of all piles to be 6 metres (or as specified for working operations)</li> <li>• The operator’s manual 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>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 rig for travel
Travelling & manoeuvring (refer to specifications)	2 Travel to the work area 3 Manoeuvre through a restriction
Setting up for work	4 Configure, prepare and set the rig for driven works
Working tasks (refer to specifications)	5 Install given displacement piles to the requisite specification 6 Ensure the pile is plumb throughout the driving activity
Completing work	7 On completion of all piling activities, configure the rig for travel
Shutting down	8 Park the rig and carry out shut-down and securing procedures
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 placed to completion</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 rig plus 800 mm</li> </ul>
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

A45

Driven below 15 tonnes

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 Set the rig correctly for travel		
	3 Restrictions cleared		
	4 Faced the direction of travel		
Setting up	5 Encountered hazards cleared		
	6 Area checked and safe prior to setting up for driven works		
	7 Rig positioned accurately prior to driven works		
	8 Ensured rig was level prior to driven works		
Working	9 RCI programmed for all duties (if fitted)		
	10 Communication arrangements confirmed with the signaller		
	11 Placed the pile in the frame/rig and aligned for driving		
	12 Drove each pile to the specification		
	13 Did not exceed rig's capacity		
Shutdown	14 Rig stability maintained		
	15 Instructions conformed with		
	16 Rig re-configured from piling to travelling duties		
Other	17 Parked in appropriate place		
	18 All shut down and securing procedures		
Other	19 Legislation, manufacturers' and health and safety requirements complied with		
	20 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	Rig 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		2	
	5	Drive sprockets kept to the rear when travelling		1	
	6	Matching travel speed to ground types		1	
	7	Piling hammer setting for travel		2	
Working	8	Minimal manoeuvring maintained during work		2	
	9	Using planned cycles of operation		2	
	10	Sequence of using driving (piling) controls		1	
	11	Smooth use of steering controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Piling Rig

Driven above 15 tonnes

**A46**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Piling rig configured for driven operations</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Facilities for rig travel and parking</li> <li>• Flat area to driven works to take place</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Driving equipment to install displacement piles</li> <li>• Crane for lifting operations (if required)</li> <li>• Suitable personnel to assist with the operations</li> <li>• Applicable lifting accessories for all loads (if required)</li> <li>• Items to create restrictions for manoeuvring</li> </ul>
Piles	<ul style="list-style-type: none"> <li>• At least one of the following: <ul style="list-style-type: none"> <li>– steel casings</li> <li>– steel box section</li> <li>– steel ‘H’ section</li> <li>– timber section</li> <li>– concrete section</li> </ul> </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>• Depth of all piles to be 6 metres (or as specified for working operations)</li> <li>• The operator’s manual 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>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 rig for travel
Travelling & manoeuvring (refer to specifications)	2 Travel to the work area 3 Manoeuvre through a restriction
Setting up for work	4 Configure, prepare and set the rig for driven works
Working tasks (refer to specifications)	5 Install given displacement piles to the requisite specification 6 Ensure the pile is plumb throughout the driving activity 7 On completion of all piling activities, configure the rig for travel
Shutting down	8 Park the rig and carry out shut-down and securing procedures
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 placed to completion</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 rig plus 800 mm</li> </ul>
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

A46

Driven above 15 tonnes

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 Set the rig correctly for travel		
	3 Restrictions cleared		
	4 Faced the direction of travel		
Setting up	5 Encountered hazards cleared		
	6 Area checked and safe prior to setting up for driven works		
	7 Rig positioned accurately prior to driven works		
	8 Ensured rig was level prior driven works		
Working	9 RCI programmed for all duties (if fitted)		
	10 Communication arrangements confirmed with the signaller		
	11 Placed the pile in the frame/rig and aligned for driving		
	12 Drove each pile to the specification		
	13 Did not exceed rig's capacity		
Shutdown	14 Rig stability maintained		
	15 Instructions conformed with		
	16 Rig re-configured from piling to travelling duties		
Other	17 Parked in appropriate place		
	18 All shut down and securing procedures		
	19 Legislation, manufacturers' and health and safety requirements complied with		
	20 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	Rig 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		2	
	5	Drive sprockets kept to the rear when travelling		1	
	6	Matching travel speed to ground types		1	
	7	Piling hammer setting for travel		2	
Working	8	Minimal manoeuvring maintained during work		2	
	9	Using planned cycles of operation		2	
	10	Sequence of using driving (piling) controls		1	
	11	Smooth use of steering controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Piling Rig

Bored below 15 tonnes

**A47**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Piling rig configured for boring operations</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Facilities for rig travel and parking</li> <li>• Flat area to bored works to take place</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Boring equipment to meet the specification</li> <li>• Equipment to create piles</li> <li>• Equipment to remove spoil at the boring location</li> <li>• Crane for lifting operations (if required)</li> <li>• Suitable personnel to assist with the operations</li> <li>• Applicable lifting accessories for all loads (if required)</li> <li>• Items to create restrictions for manoeuvring</li> </ul>
Pile specification	<ul style="list-style-type: none"> <li>• Diameter of 150 mm (or as per working specification)</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>• Depth of all piles to be 6 metres (or as specified for working operations)</li> <li>• The operator's manual 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 completed 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>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 rig for travel
Travelling & manoeuvring (refer to specifications)	2 Travel to the work area 3 Manoeuvre through a restriction
Setting up for work	4 Configure, prepare and set the rig for bored works
Working tasks (refer to specifications)	5 Form bored piles to specification 6 Ensure the bore is plumb throughout the boring activity
Completing work	7 On completion of all piling activities, configure the rig for travel
Shutting down	8 Park the rig and carry out shut-down and securing procedures
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 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 rig plus 800 mm</li> </ul>
Bore placing	<ul style="list-style-type: none"> <li>Within 100 mm of the given position</li> </ul>
Bore measurement	<ul style="list-style-type: none"> <li>Maximum of 10 degrees from vertical</li> </ul>
Bore 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

A47

Bored below 15 tonnes

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 Set the rig correctly for travel		
	3 Restrictions cleared		
	4 Faced the direction of travel		
Setting up	5 Encountered hazards cleared		
	6 Area checked and safe prior to setting up for bored works		
	7 Rig positioned accurately prior to bored works		
	8 Ensuring rig was level prior bored works		
Working	9 RCI programmed for all duties (if fitted)		
	10 Communication arrangements confirmed with the signaller		
	11 Aligned the flight for the required bore angle		
	12 Created each bore to the specification		
	13 Soil spun of flight in the agreed area (if applicable)		
	14 Formed pile to the specification		
	15 Did not exceed rig's capacity		
	16 Rig stability maintained		
Shutdown	17 Instructions conformed with		
	18 Rig re-configured from piling to travelling duties		
Other	19 Parked in appropriate place		
	20 All shut down and securing procedures		
Other	21 Legislation, manufacturers' and health and safety requirements complied with		
	22 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 Rig 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		2	
	5 Drive sprockets kept to the rear when travelling		1	
	6 Matched travel speed to ground types		1	
	7 Auger motor and flight setting for travel		2	
Working	8 Minimal manoeuvring maintained during work		2	
	9 Used planned cycles of operation		2	
	10 Sequence of using boring (piling) controls		1	
	11 Smooth use of steering controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties	
				Achieved / Not achieved

<b>Tester observations</b>	<p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>
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<b>Sign off</b>	<p>I confirm that I have carried out the Practical Technical Test in accordance with CPCS requirements and that the candidate has:</p> <p style="text-align: right;">Achieved <input type="checkbox"/>      Not achieved <input type="checkbox"/></p> <p><b>Candidate signature:</b> _____</p> <p><b>Tester signature:</b> _____</p>
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<b>CITB-ConstructionSkills Grant claim details</b>	<p>Grant is only payable for the award of a full Technical Test or Advanced Technical Test pass (both practical and theory elements to a maximum of 2 categories in any Grant Scheme year) in accordance with the full Grant Scheme rules.</p> <p>Employer <b>does not</b> intend to claim a Technical Test pass grant <input type="checkbox"/> No further information required</p> <p>Employer <b>does</b> intend to claim a Technical Test pass grant <input type="checkbox"/> Please complete additional fields below</p> <p><b>CITB-ConstructionSkills Levy Grant Registration Number (7 digits)</b>    <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p><b>Employer Name</b> _____</p> <p><b>Employer Postcode</b> _____</p>
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<b>Internal use</b>	<p> </p> <p> </p> <p> </p> <p> </p> <p> </p>
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# Piling Rig

Bored above 15 tonnes

**A48**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Piling rig configured for boring operations</li> </ul>
Area	<ul style="list-style-type: none"> <li>• Facilities for rig travel and parking</li> <li>• Flat area for bored works to take place</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Boring equipment to meet the specification</li> <li>• Equipment to create piles</li> <li>• Equipment to remove spoil at the boring location</li> <li>• Crane for lifting operations (if required)</li> <li>• Suitable personnel to assist with the operations</li> <li>• Applicable lifting accessories for all loads (if required)</li> <li>• Items to create restrictions for manoeuvring</li> </ul>
Pile specification	<ul style="list-style-type: none"> <li>• Diameter of 300 mm (or as per working specification)</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>• Depth of all piles to be 6 metres (or as specified for working operations)</li> <li>• The operator's manual 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 completed 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>• 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 rig for travel
Travelling & manoeuvring (refer to specifications)	2 Travel to the work area 3 Manoeuvre through a restriction
Setting up for work	4 Configure, prepare and set the rig for bored works
Working tasks (refer to specifications)	5 Form bored piles to specification 6 Ensure the bore is plumb throughout the boring activity 7 On completion of all piling activities, configure the rig for travel
Shutting down	8 Park the rig and carry out shut-down and securing procedures
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 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 rig plus 800 mm</li> </ul>
Bore placing	<ul style="list-style-type: none"> <li>• Within 100 mm of the given position</li> </ul>
Bore measurement	<ul style="list-style-type: none"> <li>• Maximum of 10 degrees from vertical</li> </ul>
Bore 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

A48

Bored above 15 tonnes

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 Set the rig correctly for travel		
	3 Restrictions cleared		
	4 Faced the direction of travel		
Setting up	5 Encountered hazards cleared		
	6 Area checked and safe prior to setting up for bored works		
	7 Rig positioned accurately prior to bored works		
	8 Ensured rig was level prior bored works		
Working	9 RCI programmed for all duties (if fitted)		
	10 Communication arrangements confirmed with the signaller		
	11 Aligned the flight for the required bore angle		
	12 Created each bore to the specification		
	13 Soil spun of flight in the agreed area (if applicable)		
	14 Formed pile to the specification		
	15 Did not exceed rig's capacity		
	16 Rig stability maintained		
Shutdown	17 Instructions conformed with		
	18 Rig reconfigured from piling to travelling duties		
Other	19 Parked in appropriate place		
	20 All shut down and securing procedures		
Other	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	Rig 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		2	
	5	Drive sprockets kept to the rear when travelling		1	
	6	Matching travel speed to ground types		1	
	7	Auger motor and flight setting for travel		2	
Working	8	Minimal manoeuvring maintained during work		2	
	9	Using planned cycles of operation		2	
	10	Sequence of using boring (piling) controls		1	
	11	Smooth use of steering controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Loader/Securer

A49

Non-STGO

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Transporter: <ul style="list-style-type: none"> <li>– rigid load-carrying vehicle or load-carrying trailer</li> </ul> </li> </ul>
Area	<ul style="list-style-type: none"> <li>• Facilities for transporter travel and parking</li> <li>• Flat firm area clear of hazards to allow loading and unloading of loads</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• Items for the loading, unloading, stowage and transportation of loads</li> <li>• Securing/restraining accessories for each type of load</li> <li>• Plant Operator for driving plant on and off the transporter (if required)</li> </ul>
Loads	<p><b>LOAD 1</b></p> <p>Non-LGV – 1 x track type item of construction-related plant</p> <p>LGV – 1 x track type item of construction-related plant above 5 tonnes</p> <p><b>LOAD 2</b></p> <p>Non-LGV – 1 x wheeled type item of construction-related plant</p> <p>LGV – 1 x wheeled type item of construction-related plant above 3 tonnes</p> <p><b>LOAD 3</b></p> <p>Non-LGV – 1 x ride-on roller</p> <p>LGV – 1 x ride-on roller above 1 tonne</p>
Notes	<ul style="list-style-type: none"> <li>• The transporter selected for the test must meet the specification for the required endorsement, be in serviceable condition and conform with current legislation</li> <li>• The transporter selected for the test must be able to carry and transport the required loads either individually or in multiples</li> <li>• The operator's manuals for both the transporter and each item of plant must be available</li> <li>• The operator used to drive each item of plant must have received appropriate training for the activity and be accordingly certificated</li> <li>• All securing accessories must be fit for purposes</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 2 and 3 must follow activity 7</li> <li>• Activities 6, 7 and 8 must be undertaken with each item of plant. All other activities need only be undertaken once 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 transporter for road travel (loaded and unloaded) 3 Travel to the loading and unloading area
Setting up for work	4 Position, prepare and set the transporter for receiving and removing loads 5 Establish the communication methods and loading arrangement with the plant operator (if applicable)
Working tasks (refer to specifications)	6 Place or guide each load onto the transporter bed 7 Position and secure all loads in preparation for travel 8 Remove or guide loads from the transporter 9 Stow all equipment and return the transporter to the park position
Shutting down	10 Park the transporter and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• For activity 6, each item of plant must be loaded and unloaded during the test but may be loaded individually or in multiples</li> <li>• If the transporter 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>• Positioned so as not to exceed axle loadings</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 2 hours and 15 minutes</li> </ul>

# Loader/Securer

**A49**

Non-STGO

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 Ensured transporter complies with RTA prior to travel		
Travelling	3 Ascertained height of load prior to travel		
	4 Cleared encountered hazards		
Setting up	5 Checked area safe prior to setting up for loading and unloading		
	6 Transporter positioned prior to loading and unloading		
	7 Loading and unloading area secured		
	8 Ensured transporter was set, level and secure for loading and unloading		
	9 Selected and assessed the appropriate securing accessories		
Working	10 Employed outriggers (as necessary)		
	11 Drove or guided each item of plant onto the transporter		
	12 Positioned each item of plant on transporter		
	13 Ensured axle loadings not exceeded		
	14 Positioned on trailer ensuring cutting edges not facing travel direction		
	15 Immobilised each item of plant and ensured all hydraulic systems disabled		
	16 Applied plant transportation (slew/articulation) locks		
	17 Secured/restrained item of plant ensuring no movement during transportation		
	18 Marked load overhangs accordingly (in compliance with CoP)		
	19 Secured/restrained plant in compliance with CoP		
Shutdown	20 Stowed all securing/restraining equipment		
	21 Parked in appropriate place		
Other	22 All shutdown and securing procedures		
	23 Legislation, manufacturers' and health and safety requirements complied with		
	24 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 Transporter mounting and dismounting			2	
	2 Full observation before moving and reversing			3	
	3 Full observation whilst travelling			2	
	4 Minimising positioning for loading and unloading			2	
	5 Ensuring travel speeds match ground conditions			1	
Working	6 Checking transporter anchor points prior to loading			3	
	7 Using appropriate number of anchorage points for each load			2	
	8 Using appropriate type of securing/restraining accessories for each load			2	
	9 Using chocks where needed			2	
	10 Using matting/traction aids where needed			2	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved

<b>Tester observations</b>	<p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>
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<b>Sign off</b>	<p>I confirm that I have carried out the Practical Technical Test in accordance with CPCS requirements and that the candidate has:</p> <p style="text-align: right;">Achieved <input type="checkbox"/>      Not achieved <input type="checkbox"/></p> <p><b>Candidate signature:</b> _____</p> <p><b>Tester signature:</b> _____</p>
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<b>CITB-ConstructionSkills Grant claim details</b>	<p>Grant is only payable for the award of a full Technical Test or Advanced Technical Test pass (both practical and theory elements to a maximum of 2 categories in any Grant Scheme year) in accordance with the full Grant Scheme rules.</p> <p>Employer <b>does not</b> intend to claim a Technical Test pass grant <input type="checkbox"/> No further information required</p> <p>Employer <b>does</b> intend to claim a Technical Test pass grant <input type="checkbox"/> Please complete additional fields below</p> <p><b>CITB-ConstructionSkills Levy Grant Registration Number (7 digits)</b>    <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p><b>Employer Name</b> _____</p> <p><b>Employer Postcode</b> _____</p>
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<b>Internal use</b>	<p> </p> <p> </p> <p> </p> <p> </p> <p> </p>
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# Loader/Securer

A50

STGO

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>STGO compliant transporter</li> </ul>
Area	<ul style="list-style-type: none"> <li>Facilities for transporter travel and parking</li> <li>Flat firm area clear of hazards to allow loading and unloading of loads</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>Items for the loading, unloading, stowage and transportation of loads</li> <li>Securing/restraining accessories for each type of load</li> <li>Plant Operator for driving plant on and off the transporter (if required)</li> </ul>
Loads	<ul style="list-style-type: none"> <li><b>LOAD 1</b> 1 x track type item of construction-related plant above 10 tonnes</li> <li><b>LOAD 2</b> 1 x wheeled type item of construction-related plant above 10 tonnes</li> <li><b>LOAD 3</b> 1 x ride-on roller above 10 tonnes</li> </ul>
Notes	<ul style="list-style-type: none"> <li>The transporter selected for the test must be able to carry and transport the required loads either individually or in multiples, be in serviceable condition and conform with current legislation</li> <li>The operator's manuals for both the transporter and each item of plant must be available</li> <li>The operator used to drive each item of plant must have received appropriate training for the activity and be accordingly certificated</li> <li>All securing accessories must be fit for purposes</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 2 and 3 must follow activity 7</li> <li>• Activities 6, 7 and 8 must be undertaken with each item of plant. All other activities need only be undertaken once 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 transporter for road travel (loaded and unloaded) 3 Travel to the loading and unloading area
Setting up for work	4 Position, prepare and set the transporter for receiving and removing loads 5 Establish the communication methods and loading arrangement with the plant operator (if applicable)
Working tasks (refer to specifications)	6 Place or guide each load onto the transporter bed 7 Position and secure all loads in preparation for travel 8 Remove or guide loads from the transporter 9 Stow all equipment and return the transporter to the park position
Shutting down	10 Park the transporter and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• For activity 6, each item of plant must be loaded and unloaded during the test but may be loaded individually or in multiples</li> <li>• If the transporter 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>• Positioned so as not to exceed axle loadings</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>• The test must be completed within 2 hours and 15 minutes</li> </ul>

# Loader/Securer

A50

STGO

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 – transporter)		
	2 Ensured transporter complies with RTA prior to travel		
Travelling	3 Ascertained height of load prior to travel		
	4 Cleared encountered hazards		
Setting up	5 Checked area safe prior to setting up for loading and unloading		
	6 Transporter positioned prior to loading and unloading		
	7 Loading and unloading area secured		
	8 Ensured transporter was set, level and secure for loading and unloading		
	9 Selected and assessed the appropriate securing accessories		
Working	10 Employed outriggers (as necessary)		
	11 Drove or guided each item of plant onto the transporter		
	12 Positioned each item of plant on transporter		
	13 Ensured axle loadings not exceeded		
	14 Positioned on trailer ensuring cutting edges not facing travel direction		
	15 Immobilised each item of plant and ensured all hydraulic systems disabled		
	16 Applied plant transportation (slew/articulation) locks		
	17 Secured/restrained item of plant ensuring no movement during transportation		
	18 Marked load overhangs accordingly (in compliance with CoP)		
	19 Secured/restrained plant in compliance with CoP		
Shutdown	20 Stowed all securing/restraining equipment		
	21 Parked in appropriate place		
Other	22 All shutdown and securing procedures		
	23 Legislation, manufacturers' and health and safety requirements complied with		
	24 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	Transporter mounting and dismounting		2	
	2	Full observation before moving and reversing		3	
	3	Full observation whilst travelling		2	
	4	Minimising positioning for loading and unloading		2	
	5	Ensuring travel speeds match ground conditions		1	
	6	Checking transporter anchor points prior to loading		3	
Working	7	Using appropriate number of anchorage points for each load		2	
	8	Using appropriate type of securing/restraining accessories for each load		2	
	9	Using chocks where needed		2	
	10	Using matting/traction aids where needed		2	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved

<b>Tester observations</b>	<p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>
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<b>Sign off</b>	<p>I confirm that I have carried out the Practical Technical Test in accordance with CPCS requirements and that the candidate has:</p> <p style="text-align: right;">Achieved <input type="checkbox"/>      Not achieved <input type="checkbox"/></p> <p><b>Candidate signature:</b> _____</p> <p><b>Tester signature:</b> _____</p>
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<b>CITB-ConstructionSkills Grant claim details</b>	<p>Grant is only payable for the award of a full Technical Test or Advanced Technical Test pass (both practical and theory elements to a maximum of 2 categories in any Grant Scheme year) in accordance with the full Grant Scheme rules.</p> <p>Employer <b>does not</b> intend to claim a Technical Test pass grant <input type="checkbox"/> No further information required</p> <p>Employer <b>does</b> intend to claim a Technical Test pass grant <input type="checkbox"/> Please complete additional fields below</p> <p><b>CITB-ConstructionSkills Levy Grant Registration Number (7 digits)</b>    <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p><b>Employer Name</b> _____</p> <p><b>Employer Postcode</b> _____</p>
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<b>Internal use</b>	
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# Dump Truck

## Articulated Chassis

# A56

## Technical Test – Practical

### RESOURCES

#### Required

Machine	<ul style="list-style-type: none"> <li>Articulated rear-tipping dump truck</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 material</li> <li>Edge protection</li> <li>Items to create restrictions for 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 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 dump truck</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 50 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>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 dump truck 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>– stop on the slope in the down direction and reverse back up for a minimum of 5 metres</li> <li>– drive through a restriction (unladen only)</li> <li>– travel over rough terrain</li> <li>– reverse (loaded only) in a straight line for a minimum of 50 metres and pass through a restriction at the end of the run</li> </ul>
Setting up for work	3. Position dump truck 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 body fully
Shutting down	7. Park the dump truck 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 restriction	<ul style="list-style-type: none"> <li>• 800 mm</li> </ul>
Reversing direction	<ul style="list-style-type: none"> <li>• 1 metre</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 45 minutes</li> </ul>

# Dump Truck

Articulated Chassis

# A56

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 Dump truck 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 Straight line kept for loaded reversing activity		
Setting up	7 Allocated area checked and clear of hazards prior to being loaded		
Working	8 Safe place selected during loading		
	9 Appropriate speed used when reversing to the discharge point		
	10 Edge protection applied or checked and used prior to discharging load		
	11 Parking brake applied and neutral selected before discharging loads		
	12 Vehicle marginally moved forward after discharging to clear body		
13 Body fully lowered before leaving discharge point			
Completing	14 Body clean of material		
Shutdown	15 All shutdown and securing procedures		
Other	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	Dump truck mounting and dismounting		1	
	2	Full observation before moving and reversing		3	
	3	Full observation whilst travelling		2	
	4	Travel speed matched to the ground type and conditions		2	
	5	Transmission drive engaged smoothly from rest		2	
	6	Gear ratios matched to ground speed		1	
Working	7	Dump truck positioned correctly for loading		2	
	8	Dump truck positioned square to the discharge edge prior to discharging		2	
	9	Body fully emptied after discharging		2	
	10	Smooth use of steering and braking controls		1	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Dump Truck

A57

Rigid

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Rigid rear-tipping dump truck</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 material</li> <li>• Edge protection</li> <li>• Items to create restrictions for 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 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 dump truck</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 50 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>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 dump truck 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>– stop on the slope in the down direction and reverse back up for a minimum of 5 metres</li> <li>– drive through a restriction (unladen only)</li> <li>– travel over rough terrain</li> <li>– reverse (loaded only) in a straight line for a minimum of 50 metres and pass through a restriction at the end of the run</li> </ul>
Setting up for work	3 Position dump truck 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 body fully
Shutting down	7 Park the dump truck 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 restriction	<ul style="list-style-type: none"> <li>• 800 mm</li> </ul>
Reversing restriction	<ul style="list-style-type: none"> <li>• 1 metre</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 45 minutes</li> </ul>

# Dump Truck

**A57**

Rigid

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"/> B <input type="checkbox"/> C <input type="checkbox"/> D <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 Dump truck set for travel		
	3 Restrictions cleared		
	4 Encountered hazards cleared		
	5 Full control maintained when ascending and descending slopes		
	6 No opposite movement of intended direction when restarting on slopes		
Setting up	7 Straight line kept for loaded reversing activity		
	8 Allocated area checked and clear of hazards prior to being loaded		
Working	9 Safe place selected during loading		
	10 Appropriate speed used when reversing to the discharge point		
	11 Edge protection applied or checked and used prior to discharging load		
	12 Parking brake applied and neutral selected before discharging loads		
	13 Vehicle marginally moved forward after discharging to clear body		
Completing	14 Body fully lowered before leaving discharge point		
	15 Body clean of material		
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	Dump truck mounting and dismounting		1	
	2	Full observation before moving and reversing		3	
	3	Full observation whilst travelling		2	
	4	Transmission drive engaged smoothly from rest		2	
	5	Travel speed matched to the ground type and conditions		2	
	6	Gear ratios matched to ground speed		1	
Working	7	Dump truck positioned correctly for loading		2	
	8	Dump truck positioned square to the discharge edge prior to discharging		2	
	9	Body fully emptied after discharging		2	
	10	Smooth use of steering and braking controls		3	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Excavator 360

A58

Below 10 tonne

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• 360 Excavator equipped with a grading blade and fitted with a standard excavating bucket or quick hitch</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 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 bucket for reinstating and changing activities</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 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 being not less than 60% of the full radius of the machine</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 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</li> <li>• All lifting accessories must be fit for purpose and certificated</li> <li>• The weight of all loads must be known</li> <li>• Load (lifting) charts for the excavator being used for the test must be available for use</li> <li>• The slinger and signaller must be certificated and competent</li> <li>• The same bucket may be used for reinstating and changing purposes</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, 6, 7 and 8 can be 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 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</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 a vertical trench to the specified dimensions 5 Produce 2 x straight trenches to form a 'T' pattern with square starts and finishes 6 Load material into a vehicle 7 Change the bucket 8 Lift the load from minimum radius, position the load at 75% of full radius and rotate for a minimum of 180 degrees. On completion land the load at a given point and detach. 9 Reinststate the work area back to the original state
Shutting down	10 Park the excavator and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• For activity 2, wheeled excavators must pass through the restriction in a forward and reverse direction</li> <li>• For activity 7, the dipper must be raised and slewed away from the bucket before attaching, if using the same bucket</li> <li>• For activity 8, the lift shall be undertaken using static duties only</li> <li>• For activity 9, the grading blade shall be employed</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>• 600 mm (activity 2)</li> </ul>
Trench depths	<ul style="list-style-type: none"> <li>• Up to 5 tonnes = 0.5 metre ±35 mm and straight within ±60 mm</li> <li>• Above 5 tonnes = 1.0 metre ±35 mm and straight within ±60 mm</li> </ul>
Trench length	<ul style="list-style-type: none"> <li>• Up to 5 tonnes = 5 metres and 2 metres</li> <li>• Above 5 tonnes = 10 metres and 4 metres</li> </ul>
Moving loads	<ul style="list-style-type: none"> <li>• Maximum height of underside of the load = 1 metre (when being moved)</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 45 minutes</li> </ul>



# Excavator 360

A58

Below 10 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 Restrictions cleared		
	3 Excavator set for travel		
	4 Encountered hazards cleared		
	5 Boom/dipper arm position when ascending and descending inclines		
	6 Faced direction of travel whilst travelling		
	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 conform 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 Existing bucket removed and replacement bucket installed		
	15 Excavator positioning prior to lifting loads		
	16 SWL not exceeded at all times		
	17 Lifted, moved and lowered load in a controlled manner		
	18 Stability of the machine maintained at all times		
	19 Excavated area reinstated back to the original contours		
	20 Grading blade utilised for reinstating work		
	Shutdown	21 All shutdown and securing procedures	
Other	22 Legislation, manufacturers' and health and safety requirements complied with		
	23 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 Excavator mounting and dismounting		1	
	2 Full observation before moving		2	
	3 Full observation whilst travelling		2	
	4 Observation before slewing upper structure		2	
	5 Drive sprockets kept to the rear when travelling		1	
	6 Travel speed matched to the ground type and conditions		1	
	7 Tight turns avoided when travelling (tracked machines only)		1	
Working	8 Site and set for excavating		2	
	9 Trench excavated in layers		1	
	10 Sideswiping with bucket		1	
	11 Edges of the excavations clean and clear		2	
	12 Material cleanly placed into the loading vehicle		1	
	13 Contact with vehicle avoided when loading		1	
	14 Load placing within given tolerances		2	
	15 Keeping load height within given tolerance		1	
	16 Use of Steering/hydraulic controls		1	
<b>Not exceeded 8 penalties</b>		Total penalties		
				Achieved / Not achieved



# Excavator 360

A59

Above 10 tonne

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• 360 Excavator fitted with a standard excavating bucket using a quick-hitch coupling system</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 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 bucket for reinstating and changing activities</li> <li>• Items to create restrictions for manoeuvring</li> <li>• Laser equipped measuring equipment to ensure trench specifications are met</li> <li>• Measuring tape for measuring the maximum 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 not less than 60% of the machine's lifting capacity at full radius</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 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</li> <li>• All lifting accessories must be fit for purpose and certificated</li> <li>• The weight of the load must be known</li> <li>• Load (lifting) charts for the excavator being used for the test must be available for use</li> <li>• The slinger and signaller must be certificated and competent</li> <li>• Minimum bucket sizes apply as follows: <ul style="list-style-type: none"> <li>– machines up to 20 tonnes – 24 inches (600 mm equivalent)</li> <li>– machines above 20 tonnes – 36 inches (900 mm equivalent)</li> </ul> </li> <li>• The same bucket may be user for reinstating and changing purposes</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, 6, 7 and 8 can be 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 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</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 a vertical trench to the specified dimensions 5. Complete a square excavation with vertical sides at the end of the dug trench 6. Load material into a vehicle 7. Change the bucket 8. Lift the load from minimum radius, position the load at 75% of full radius and rotate for a minimum of 180 degrees. On completion land the load at a given point and detach
Completing work	9. Reinstate the work area back to the original state
Shutting down	10. Park the excavator and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• For activity 2, wheeled excavators must pass through the restriction in a forward and reverse direction</li> <li>• For activity 7, the dipper must be raised and slewed away from the bucket before attaching, if using the same bucket</li> <li>• For activity 8, the lift shall be undertaken using static duties only</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>

## SPECIFICATIONS

**Activity measurements**

Travel restrictions	<ul style="list-style-type: none"> <li>• 800 mm (activity 2)</li> </ul>
Trench depth	<ul style="list-style-type: none"> <li>• 1.0 metre <math>\pm</math> 35 mm and straight within <math>\pm</math> 60 mm</li> </ul>
Trench length	<ul style="list-style-type: none"> <li>• Machine weight: 10–20 tonnes = 15 metres over 20 tonnes = 20 metres</li> </ul>
Square excavation	<ul style="list-style-type: none"> <li>• 3 x buckets wide and a depth of 1.5 metres <math>\pm</math> 35 mm</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 and 15 minutes</li> </ul>



# Excavator 360

A59

Above 10 tonne

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 Restrictions cleared		
	3 Excavator set for travel		
	4 Encountered hazards cleared		
	5 Boom/dipper arm 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 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 positioned prior to loading		
	13 Vehicle evenly loaded but not overloaded		
	14 Existing bucket removed and replacement bucket installed		
	15 Excavator positioning prior to lifting loads		
	16 SWL not exceeded at all times		
	17 Lifted, moved and lowered load in a controlled manner		
18 Stability of the machine maintained at all times			
Completing	19 Excavated area reinstated back to original contours		
Shutdown	20 All shutdown and securing procedures		
Other	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	Excavator mounting and dismounting		1	
	2	Full observation before moving		2	
	3	Full observation whilst travelling		2	
	4	Observation before slewing up a structure		2	
	5	Drive sprockets kept to the rear when travelling		1	
	6	Travel speed matched to the ground type and conditions		1	
	7	Minimising ground damage when turning (tracked machines only)		1	
Working	8	Site and set for excavating		2	
	9	Trench excavated in layers		1	
	10	Sideswiping with bucket		1	
	11	Edges of excavation clean and clear		2	
	12	Material cleanly placed into the loading vehicle		1	
	13	Contact with vehicle avoided when loaded		2	
	14	Load placing within given tolerances		2	
	15	Keeping load height within given tolerance		1	
	16	Use of steering/hydraulic controls		1	
<b>Not exceeded 8 penalties</b>				Total penalties	
					Achieved / Not achieved



# Mobile Crane

**A60**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>Mobile crane having: <ul style="list-style-type: none"> <li><b>Endorsement A</b> – 4 outriggers minimum <i>Blocked Duties</i></li> <li><b>Endorsement B</b> – capability for pick and carry duties <i>Pick &amp; Carry Duties</i></li> <li><b>Endorsement C</b> – 4 outriggers minimum <i>All Duties</i></li> </ul> </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% full 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 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>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 5–10 can be undertaken in any order??</li> <li>• Activities 8 and 10 may be incorporated during activities 5–7??</li> <li>• Activity 15 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)	2 Travel to the work area 3 Reverse into a confined space
Setting up for work	4 Prepare and set the crane for each lift 5 Change the number of falls on the hook block from 2 to 3 or 3 to 2
Working tasks (refer to specifications)	6 Lift LOAD 1 which must be at 75% of maximum radius, and land at a designated place at minimum radius. Once landed, move back to at least 75% of maximum radius and rotate for at least 360 degrees. Land the load at mid-radius at a designated place 7 Lift LOAD 2 and simulate a concrete pouring exercise by travelling the load in a straight line for a distance of not less than 6 metres. Land the load at a designated place 8 Lift LOAD 3 using 3 falls of rope, rotate for at least 270 degrees, and land in a designated place 9 Endorsements B & C – Lift LOAD 2 from a designated position and travel with the load suspended for at least 10 metres. Land the load at a designated place 10 Lift LOAD 4 using a minimum radius and rotate maintaining minimum radius for at least 360 degrees. Land the load at a designated place 11 Lift a load from a given position and land in a designated place out-of-sight of the Candidate 12 Recover simulated 2 metre load swings
Completing work	13 All loads to be made safe following each activity 14 On completion of all lifting activities, configure the crane for travel
Shutting down	15 Park the crane 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 correctly before carrying out each activity</li> <li>• On activities 6, 7, 8 and 10, 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 12 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> </ul> <p style="text-align: right;"><i>continued...</i></p>

### ACTIVITY (CONTINUED)

#### Instructions

Notes (continued)	<ul style="list-style-type: none"> <li>• Activity 11 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 purposes of the test, all hand signals shall conform with BS 7121 Part 1:2006</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>
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#### Activity measurements

Reversing specification	<ul style="list-style-type: none"> <li>• No wider than the width of the crane plus 900 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>



# Mobile Crane

# A60

## 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"/> B <input type="checkbox"/> C <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 Crane set for travel		
	3 Restrictions cleared		
Setting up	4 Encountered hazards cleared		
	5 Area checked and safe prior to setting up for lifting and depositing loads		
	6 Crane positioned prior to lifting loads		
	7 Stabilisers set (A & C only)		
	8 Ensured crane was level prior to lifting loads		
	9 RCI programmed for all lifting duties		
	10 Hook blocked re-reeved to requested number of falls		
	11 Communication arrangements confirmed with the signaller		
	12 Turntable locked/braked prior to travelling with a suspended load (B & C only)		
	Working	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			
17 Route assessed and travelled with the suspended load in a controlled manner (B & C only)			
Completing	18 Instructions conformed with		
	19 Crane re-configured from lifting to travelling duties		
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		

**All of these items must be awarded**

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		3	
	3 Full observation whilst travelling		2	
	4 Full observation before slewing the upper structure		2	
	5 Lifting accessories kept clear of the ground		1	
Working	6 Load swings kept within 0.5 of a metre / rectified swinging		2	
	7 All loads placed at the given points within the given tolerance		2	
	8 Each load lifted clear of surface and checking for integrity		2	
	9 All loads vertically lifted		2	
	10 Sequence of using hydraulic/lifting controls		2	
	11 Smooth use of the steering, braking and hydraulic controls		1	

**Not exceeded 8 penalties**

Total penalties

Achieved / Not achieved

<b>Tester observations</b>	<p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>
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<b>Sign off</b>	<p>I confirm that I have carried out the Practical Technical Test in accordance with CPCS requirements and that the candidate has:</p> <p style="text-align: right;">Achieved <input type="checkbox"/>      Not achieved <input type="checkbox"/></p> <p><b>Candidate signature:</b> _____</p> <p><b>Tester signature:</b> _____</p>
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<b>CITB-ConstructionSkills Grant claim details</b>	<p>Grant is only payable for the award of a full Technical Test or Advanced Technical Test pass (both practical and theory elements to a maximum of 2 categories in any Grant Scheme year) in accordance with the full Grant Scheme rules.</p> <p>Employer <b>does not</b> intend to claim a Technical Test pass grant <input type="checkbox"/> No further information required</p> <p>Employer <b>does</b> intend to claim a Technical Test pass grant <input type="checkbox"/> Please complete additional fields below</p> <p><b>CITB-ConstructionSkills Levy Grant Registration Number (7 digits)</b>    <table border="1" style="display: inline-table;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table></p> <p><b>Employer Name</b> _____</p> <p><b>Employer Postcode</b> _____</p>							

<b>Internal use</b>	
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# Appointed Person

**A61**

Lifting Operations

Technical Test – Practical

## RESOURCES

### Required

Area	<ul style="list-style-type: none"> <li>• Quiet room having desks and seating arrangements for each candidate</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>• CPCS supplied Risk Assessment/Method Statement</li> <li>• CPCS supplied Lifting Scenarios 1–8</li> <li>• Copies of LOLER 1998</li> <li>• Copies of PUWER 1998</li> <li>• Copies of BS 7121 parts 1, 2 and 3</li> <li>• Range of mobile crane specifications</li> <li>• Copies of Lifting accessory catalogues</li> <li>• Copies of mobile crane outrigger point loading charts (preferable)</li> <li>• Drawing and writing and measuring (rulers etc.) equipment</li> <li>• A2 or A3 white paper for drawings</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• There must be a minimum of five mobile crane specifications for each scenario. One crane must be the ideal and two within 25% of the ideal, with one of those being out of its capacity for the scenario</li> <li>• An ideal crane is one that is deemed as working to 80% of its capacity for the radius, height and ground conditions for each scenario. This is important as Candidates must take commercial considerations into account and not select too large a crane</li> <li>• Candidates must be supplied with information regarding outrigger point loadings. Crane manufacturer's outrigger point-loading charts must, as far as is reasonably practical, be used</li> <li>• Up to 8 candidates may be assessed providing sufficient resources are available</li> </ul>

ACTIVITY

**Instructions**

Sequence	<ul style="list-style-type: none"> <li>The Technical Test theory question paper or lift scenario may be attempted in any order by the candidate. However, the theory question paper, once started, must be completed by the Candidate before a comfort/refreshment break can be taken. The standards of the practical test grading sheet must be explained to the Candidates prior to starting the test. It is recommended to allow Candidates sight of the marking sheet</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Brief	<ul style="list-style-type: none"> <li>The tester will issue a lift scenario each Candidate. Each Candidate will have a different scenario and each Candidate must have access to the equipment identified within the resources section</li> </ul>

**Activity measurements**

Standards	<ul style="list-style-type: none"> <li>Identified on the grading form</li> </ul>
Test timings	<ul style="list-style-type: none"> <li>The test must be completed within 6 hours and 30 minutes</li> </ul>

### Risk Assessment

**Note:** This form can only be used for the purposes of CPCS appointed person and crane supervisor training, assessments and testing, and is used with kind permission of the Construction Plant-Hire Association.

A drawing showing the lift details must accompany this form. All boxes **MUST** be completed with either the required information or marked N/A.

Drawings must show plan and elevation and be in an identifiable scale

**Important – All submitted data must be in metric units.**

Assessment Scenario No	Date of Assessment:
Candidate Name	Location of Assessment

#### 1. General Details

Customer:	
Site contact:	Telephone:
Site Location:	
Description of lift:	

#### 2. Details of Load

Weight:	Net
	Gross
Dimensions:	
Position of C of G:	
Height of lift	
Max radius	

### 3. Details of Crane

Make & model:	
Capacity:	
Boom length required:	
Fly jib length and angle (if required) or N/A	
Outrigger spread: <i>show dimensions on drawings</i>	
Mat/Pad size	<i>Show all calculations</i>
Rigged Weight of Crane:	

### 4. Ground Conditions

Access/egress for crane & transport:	
Lifting position:	

### 5. Lifting Accessories

Slings (wire rope):	Slings (webbing):
Slings (chains):	Shackles:
Other Accessories:	

#### 6a. Identification of Hazards (Proximity)

Proximity Hazards	Present?
Overhead power lines	Yes / No
Other overhead obstacles	Yes / No
Underground services	Yes / No
Excavations	Yes / No
Unstable/Soft ground	Yes / No

Proximity Hazards (cont.)	Present?
Hazardous chemicals/materials	Yes / No
Confined working area	Yes / No
Restricted access – width	Yes / No
Other Hazards identified	Yes / No

#### 6b. Identification of Hazards (Load)

Load Hazard	
Slinging difficulties	Yes / No
Top heavy	Yes / No
Sharp edges	Yes / No
Other hazards identified	Yes / No

### 7. Assessment of Risk

Hazard Present	Risk	Action to Avoid or Reduce Risk

*Continue on a separate sheet if needed.*

### 8. Operational Requirements:

What crane should come equipped with

**9. Customer Provisions:**

--

**Method Statement**

**10. Personnel**

The following personnel (*please state*) will be provided, complete with relevant personal protective equipment. The duties of these people will be as defined in British Standard 7121:

Title	Responsibility	Required PPE

*Continue on a separate sheet if needed.*

**11. Lifting Accessories**

The lifting accessories will be provided by *(please name)*.....

**12. Weather Conditions**

The lifting operation can only take place if the weather conditions are within the limits recommended by:

*(please state)* .....

**13. Ground Conditions**

The ground bearings are *(please state)*.....and I have obtained assurances that the ground can withstand the load.

**14. Sequence of Operations**

Please start at 1 and number each action consecutively

No	Description

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*Continue on a separate sheet if needed.*

### 15. Contingency Statement

### 16. Candidate's Confirmation\*

I confirm that I have prepared the Risk assessment and Method Statement, and the lift has been planned in accordance with current legislation and British Standard 7121

**Signed:**

**Date:**

Note \* For the purposes of Crane Supervisor Training and Testing, the Instructor shall sign this section.

# Appointed Person – Lifting Operations

A61

Assessment Scenario

Technical Test – Practical

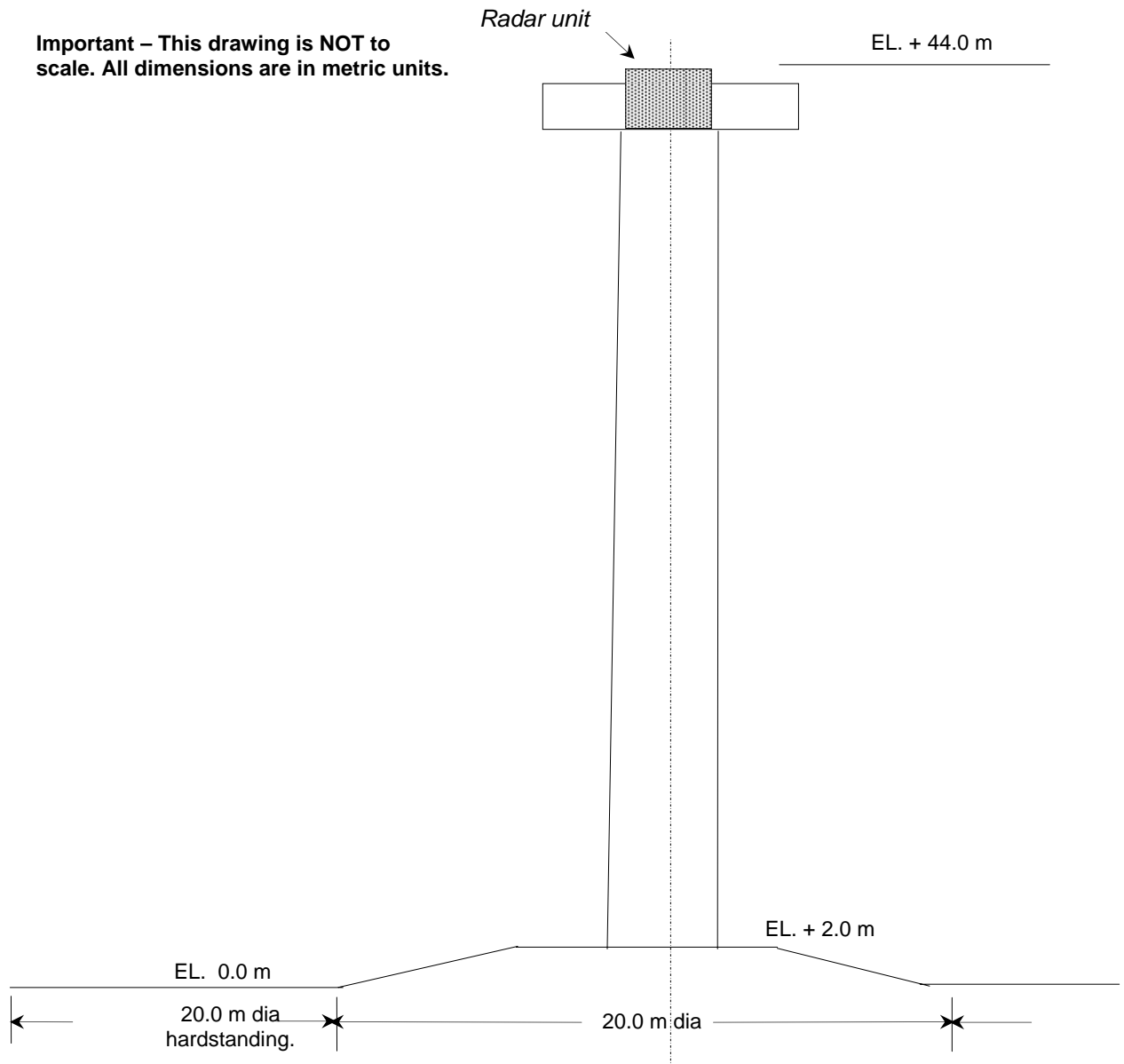
Title – Lift an airport radar unit.

Scenario 1

## Candidate's Notes:

1. Lift and lower a radar unit onto a transporter. The airfield is active and the worksite is located at the eastern corner of the airport.
2. There are 4 lifting points at the top of the radar unit, fitted with eye bolts – with link.
3. A dedicated lifting frame (supplied by the clients) must be used – being 0.4 t with wire rope slings, with a single lift point (to the crane) and 3.5 m from lifting ring to attaching points.
4. Weight of unit – 646 Kg.
5. Height of unit – 1.8 m.
6. Diameter of unit – 4.8 m
7. Diameter of tower – 3.0 m
8. Platform is 6.7 m dia and has rail height of 1.4 m.
9. Radar unit has been prepared for lifting by client and is ready to lift.
10. There is an internal stairway to the platform for maintenance purposes.
11. Customer – Dundrodd Airport Authority. Site – Zone 1, Dundrodd Airport. Site Contact – L Wade, 01744 98 65 87
12. Good access and egress roads to work site.
13. Trailer for transporting load to be positioned as close to tower as feasibly possible.
14. Ground bearing pressure not to exceed  $25\text{t/m}^2$

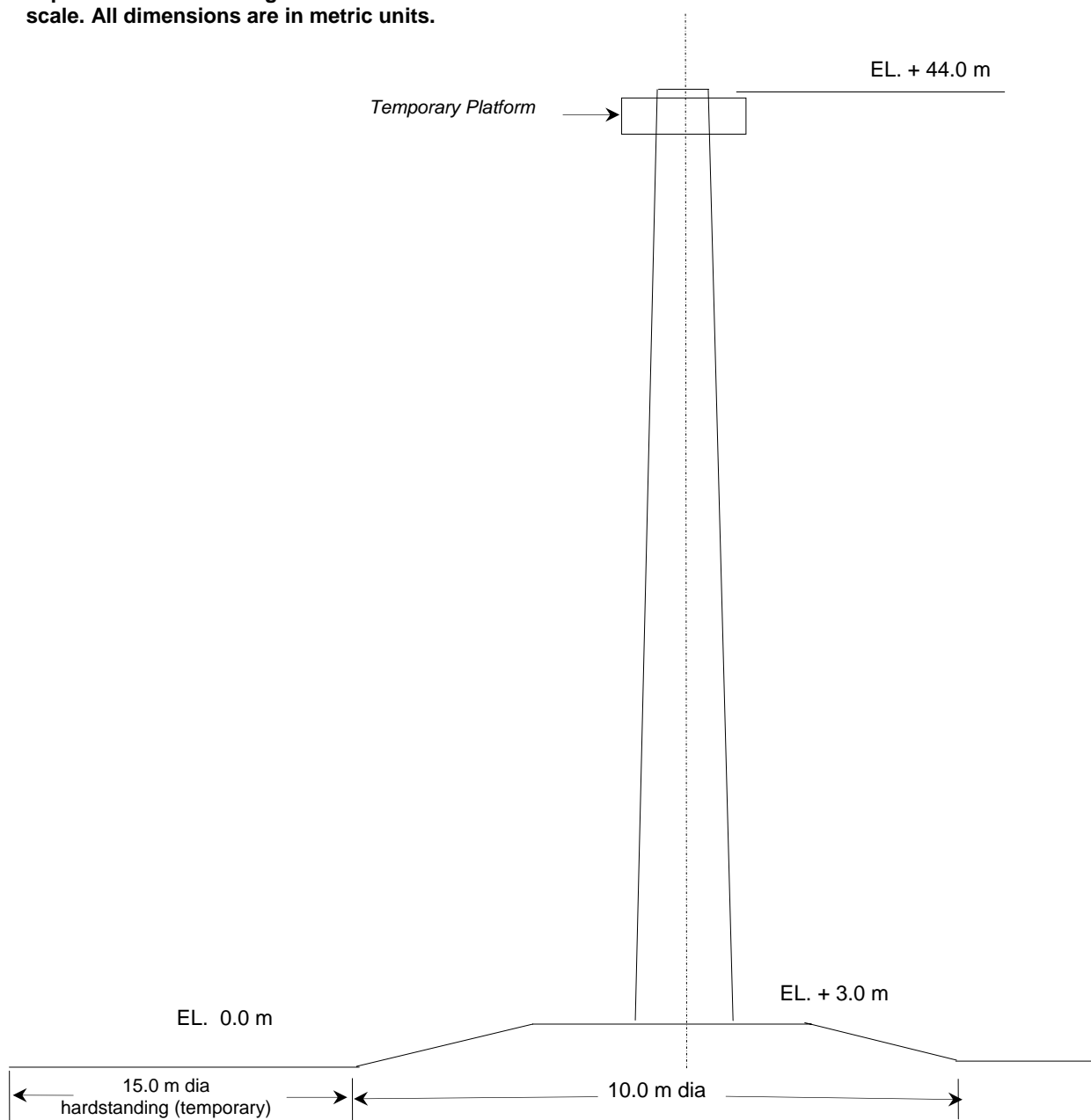
**Important – This drawing is NOT to scale. All dimensions are in metric units.**



#### Candidates Notes:

1. From a transporter, lift and place into position a wind turbine generator/housing unit.
2. There are 2 integral lifting points at the top of the generator housing
3. Diameter of column – base = 5.0 m, top = 3.0 m
4. Weight of generator and housing – 3.8 t
5. Diameter of housing – 2.6 m (*note: housing locates horizontally on tower*)
6. Length of housing - 4.5 m
7. Housing to be bolted to tower by turntable with 8 x bolts.
8. There is an internal stairway to turbine housing for maintenance purposes.
9. Platform (temporary) diameter - 5.0 m, height 1.2 m (platform to be rigged/derigged by client)
10. Customer – Wind Energy Inc. Site – Glenshire Wind Farm. Site Contact – N Hubbard, 01334 765 775
11. Good access and egress roads to site.
12. Trailer with load to be positioned close to tower as feasibly possible.
13. Ground bearing pressure not to exceed 25t/m<sup>2</sup>

**Important – This drawing is NOT to scale. All dimensions are in metric units.**



# Appointed Person – Lifting Operations

## Assessment Scenario

### Title – Lift and Place a Section of Footpath Bridge

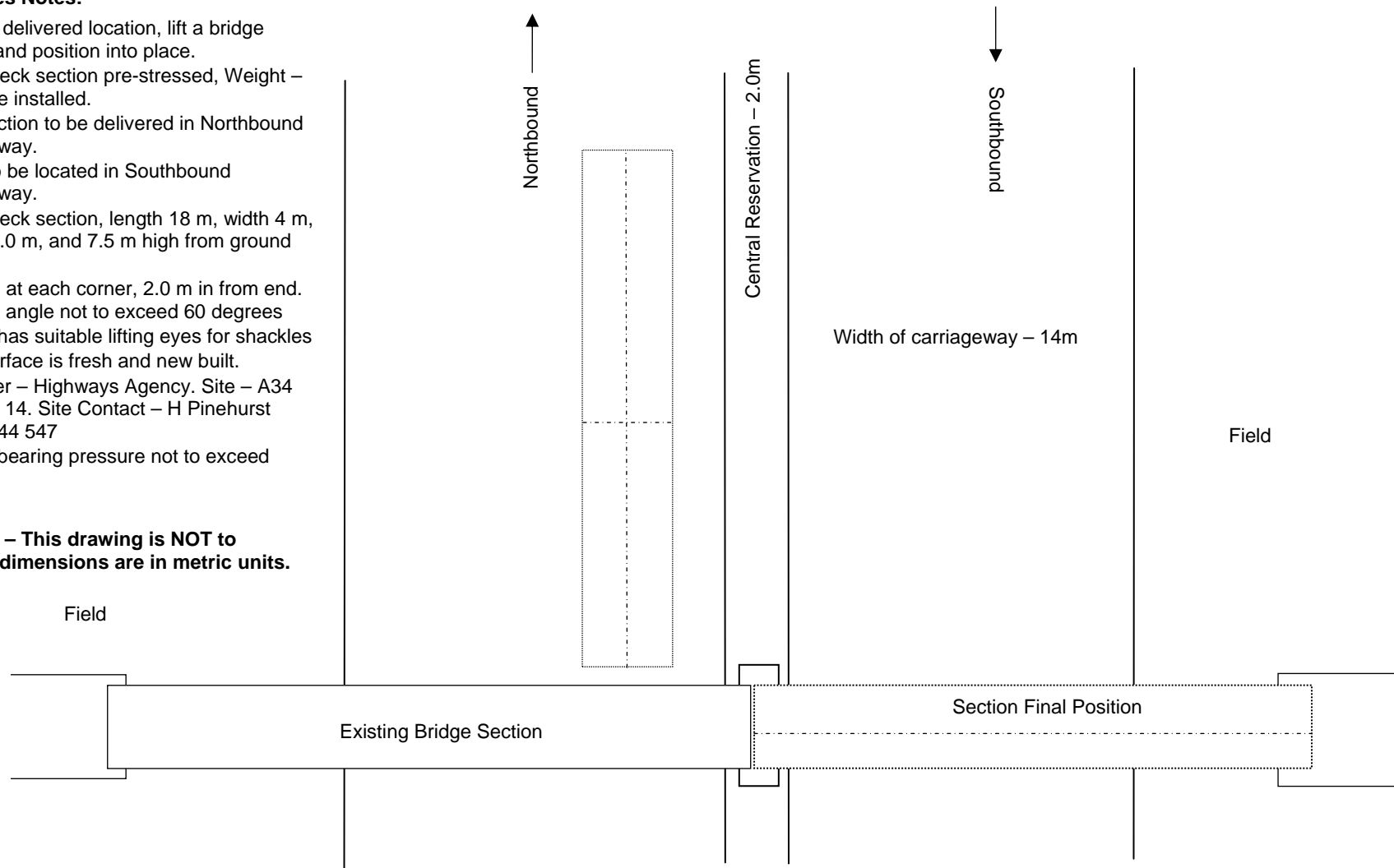
A61

Technical Test – Practical  
Scenario 3

#### Candidates Notes:

1. From its delivered location, lift a bridge section and position into place.
2. Bridge deck section pre-stressed, Weight – 34 t to be installed.
3. Deck section to be delivered in Northbound carriageway.
4. Crane to be located in Southbound carriageway.
5. Bridge deck section, length 18 m, width 4 m, Height 2.0 m, and 7.5 m high from ground level.
6. Lift point at each corner, 2.0 m in from end. Included angle not to exceed 60 degrees
7. Section has suitable lifting eyes for shackles
8. Road surface is fresh and new built.
9. Customer – Highways Agency. Site – A34 Junction 14. Site Contact – H Pinehurst 07877 344 547
10. Ground bearing pressure not to exceed 25t/m<sub>2</sub>

**Important – This drawing is NOT to scale. All dimensions are in metric units.**



# Appointed Person – Lifting Operations

## Assessment Scenario

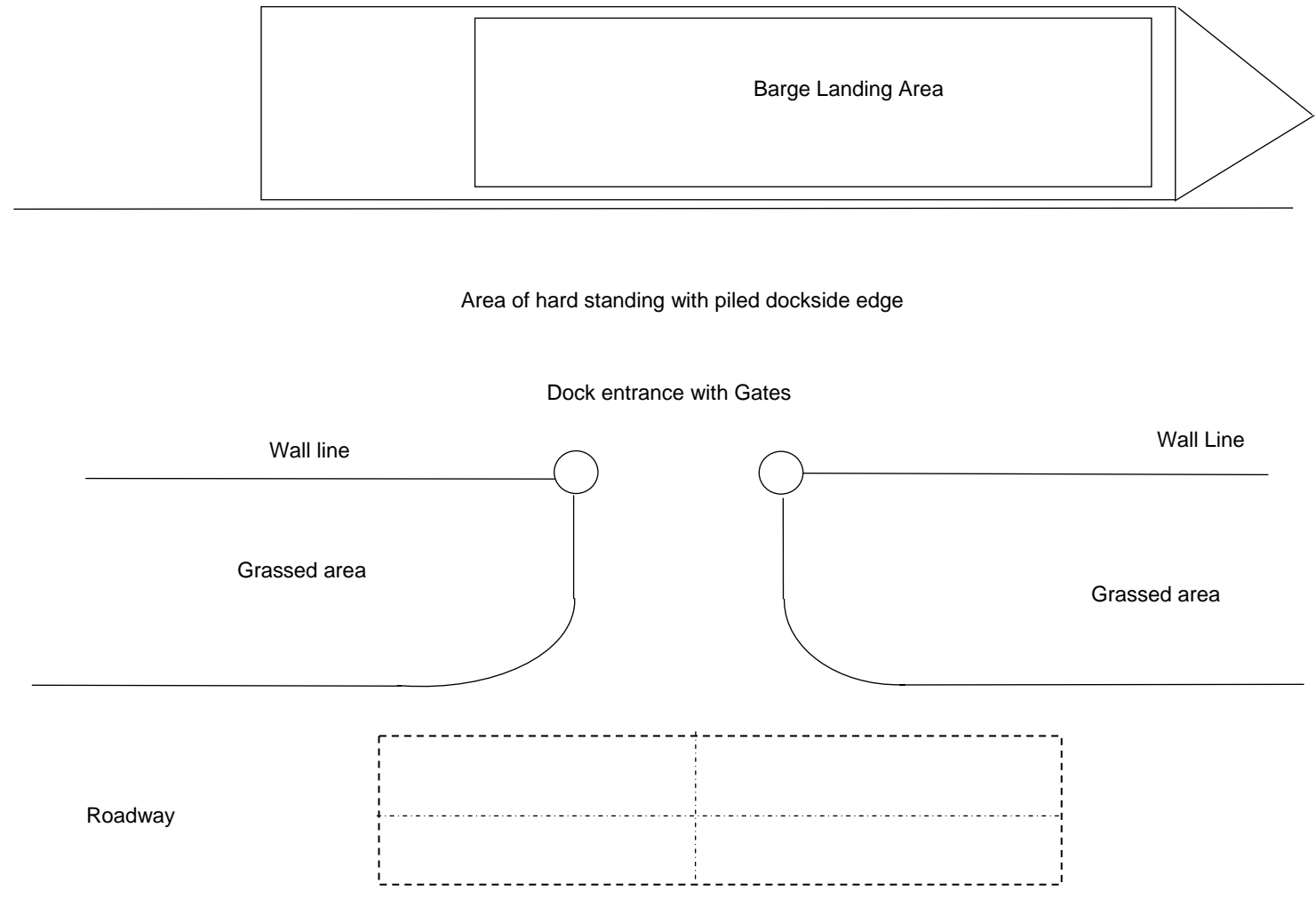
### Title – Lift and Place a Tank onto a Barge

A61

Technical Test – Practical  
Scenario 4

#### Candidates Notes:

1. From its delivered position, lift an aluminium tank from the trailer and place onto the waiting barge.
2. Weight of tank – 9.35 t.
3. Tank dimensions – Length 12 m, Diameter 5 m.
4. Lifting beam supplied by client, weighs a total of 650 kgs (inclusive of beam suspension wires) and is 6 m in length.
5. Roadway width – 7 m.
6. Gateway width – 5 m.
7. Wall and Gate heights 2.43 m.
8. Grassed area width – 5 m
9. Dockside 12 m wide
10. Tank has no fixed lifting points, and is hollow.
11. Barge landing area = 15 m x 6.6 m.
12. Barge is floating in a closed lock and moored alongside with a 1.0 m gap.
13. Flatdeck barge has full surrounding safety rail with a 0.7 m walkway all around the landing area.
14. Customer – TTP Chemicals Ltd. Site – Leaside Docks. Site Contact – J Stone 0207 345 4522
15. Ground bearing pressure not to exceed 25 t/m<sup>2</sup>



**Important – This drawing is NOT to scale. All dimensions are in metric units.**

# Appointed Person – Lifting Operations

## Assessment Scenario

A61  
Technical Test – Practical

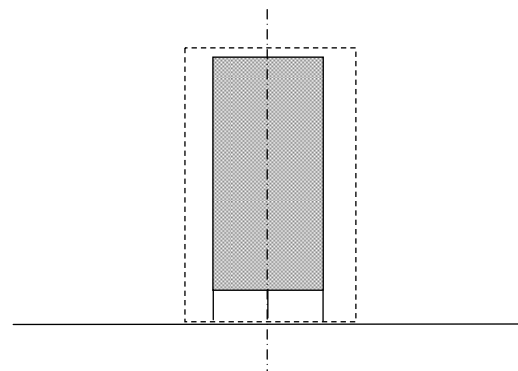
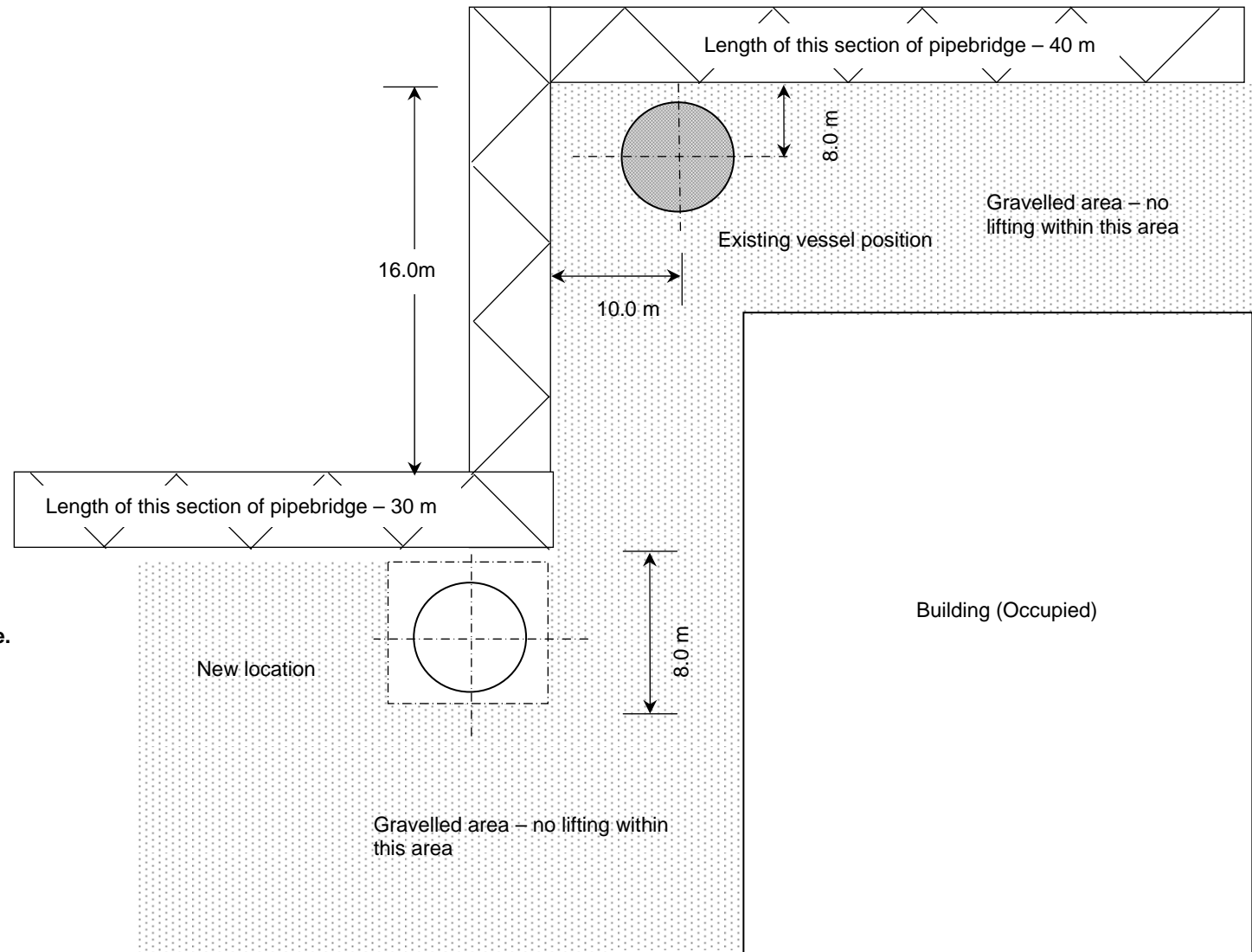
### Title – Lift and Place a Vessel into Position

Scenario 5

#### Candidates Notes:

1. Lift a vessel from an existing position and place into an open steel support structure. The plant is under construction.
2. Vessel weight: 22 t.
3. Support steelwork: 11.5 m high x 7 m x 7 m.
4. Vessel dimensions – Height (inc legs) 11 m, Diameter 6.8 m.
5. Vessel exists on site in vertical orientation.
6. Pipebridge height (to underside) – 8.8 m.
7. Pipebridge dimensions 2.7 m x 2.7 m.
8. Height of building – 7 m with flat roof. Dimensions 20 x 20 m.
9. Tank has 2 x fixed lifting points, has 4 x legs spaced radially, and 1 x central leg. The tank is to be bolted to the supporting steelwork by the client.
10. Customer – East-South Water Ltd. Site – Northern Grange Treatment Works. Site Contact – S Loggan 07735 345 554
11. Gravelled area to south of pipebridge. Concreted area to north of pipebridge.
12. Ground bearing pressure not to exceed 25 t/m<sup>2</sup>
13. Good access and egress road to work site.

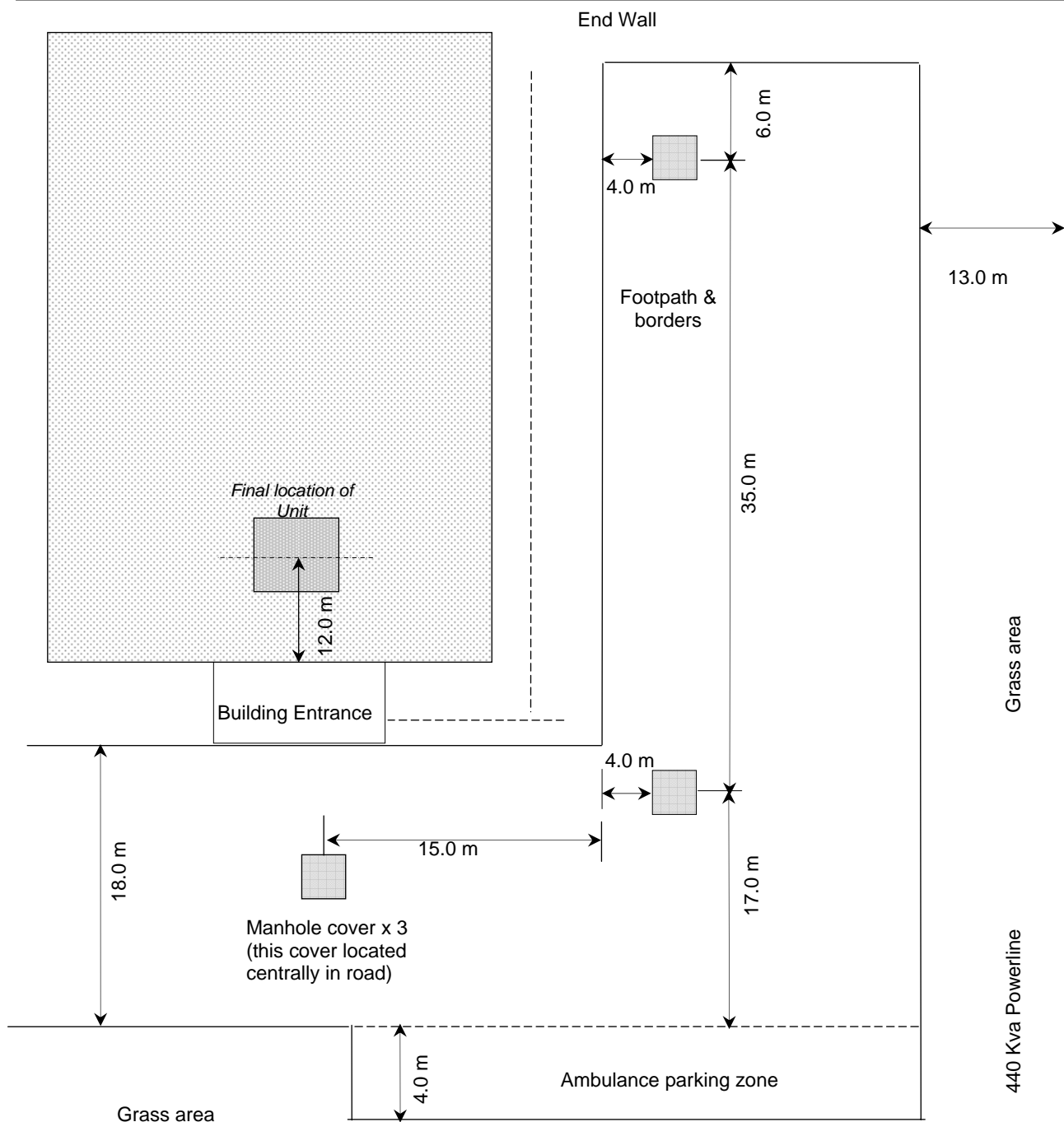
**Important – This drawing is NOT to scale.  
All dimensions are in metric units.**



Candidates Notes:

1. Air Conditioning to be lifted from transporter and placed on top of the building, 12 m from the front of the building. The site is a new build and not occupied by the client.
2. Weight of the unit– 6.4 t and has a lifting point in each corner.
3. The Unit is 3.25 m high x 2.4 m x 2.4 m.
4. The building is 33 m high, 20 m wide and 30 m in length.
5. The road is 18 m wide with the end wall 2.4 m high.
6. The footpath and borders surrounding the building are 6 m wide and contain various underground services.
7. The manhole covers are 1 m x 1 m in size.
8. Customer – NHS. Site – Priestley Hospital. Site Contact – J Oremand, 01207 885 586
9. Trailer for transporting load to be positioned close to building as feasibly possible.
10. Ground bearing pressure not to exceed 25 t/m<sup>2</sup>

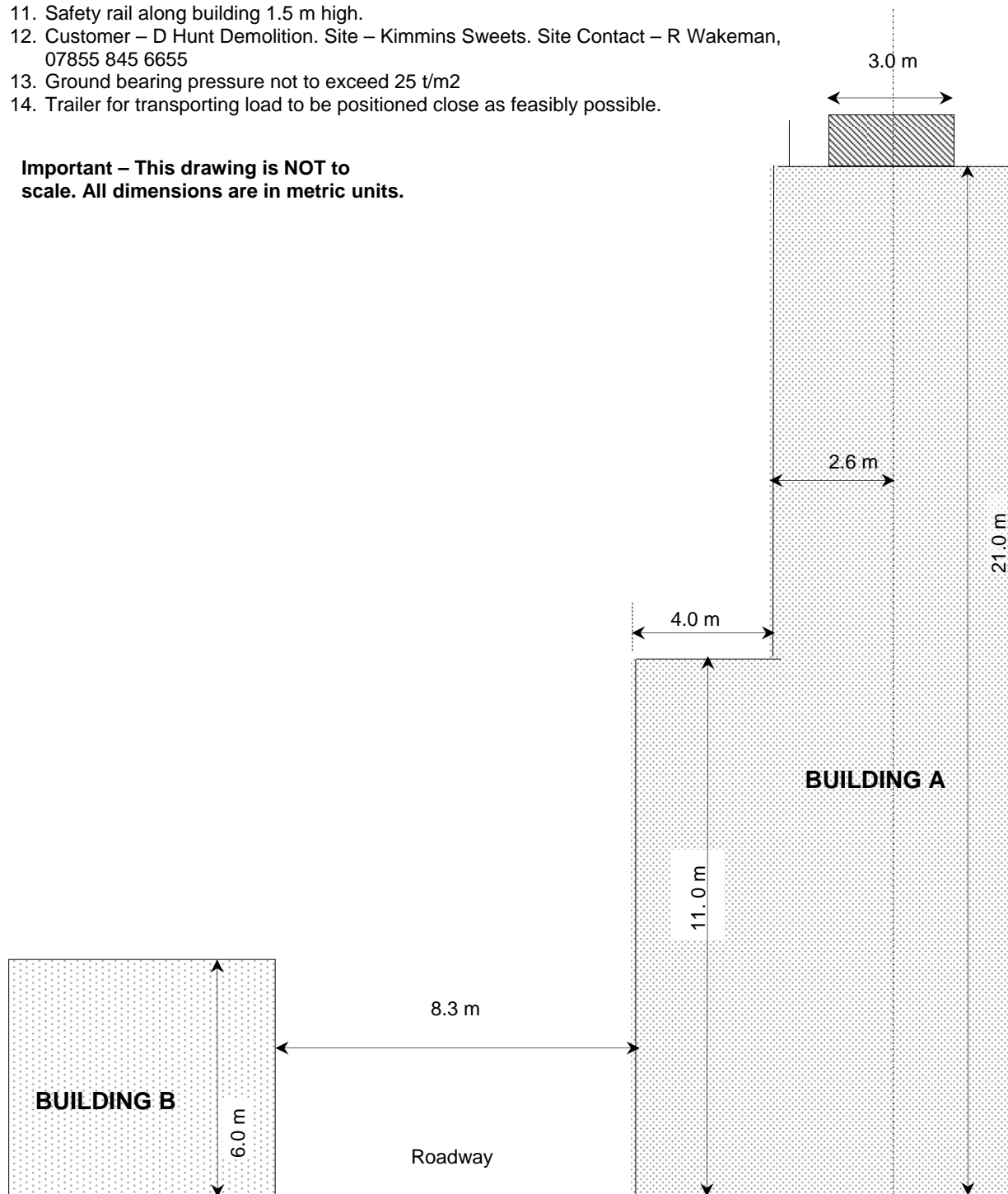
**Important – This drawing is NOT to scale. All dimensions are in metric**



#### Candidates Notes:

1. Unit located in top of a disused factory. Unit to be placed onto truck for transportation.
2. There are 4 x integral eye bolts in each corner on top of the motor.
3. Weight of motor – 4.8 t
4. Length of the motor – 5.0 m
5. Height of motor – 1.5 m
6. Width of the motor – 3.0 m
7. Roadway constructed of concrete and has no underground services.
8. Length of roadway – 40 m, with clear access at both ends.
9. Length of Building A and B – 20 m x 20 m
10. Access to roof is via internal stairs.
11. Safety rail along building 1.5 m high.
12. Customer – D Hunt Demolition. Site – Kimmins Sweets. Site Contact – R Wakeman, 07855 845 6655
13. Ground bearing pressure not to exceed 25 t/m<sup>2</sup>
14. Trailer for transporting load to be positioned close as feasibly possible.

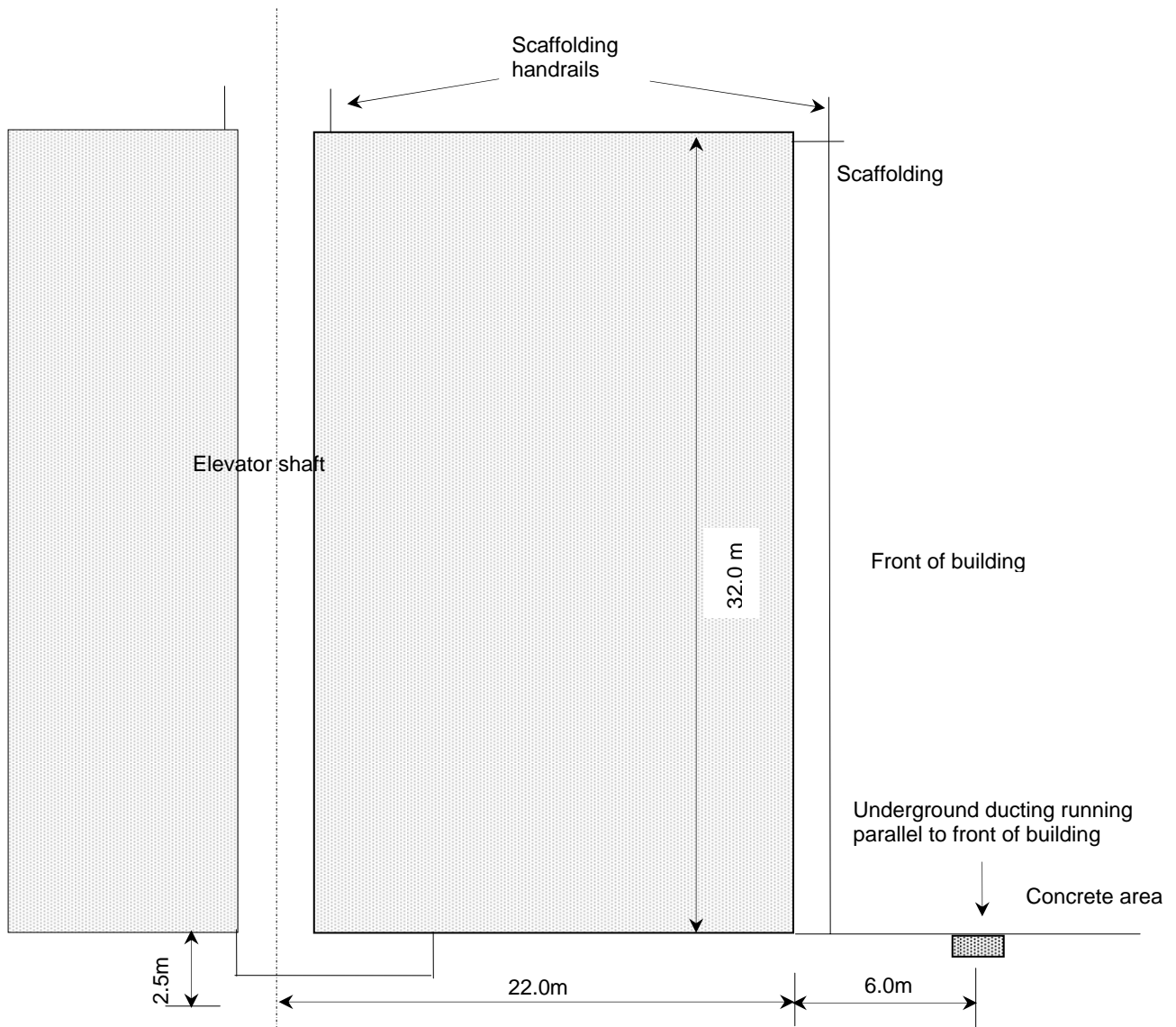
**Important – This drawing is NOT to scale. All dimensions are in metric units.**



#### Candidates Notes:

1. From a transporter, lift and lower the base-support unit down the lift shaft of this building being constructed. The unit is to be located at the bottom of the shaft.
2. The elevator shaft is 2 m x 2 m.
3. Weight of base-support unit – 0.7 t and is mounted on a pallet. Support unit must remain on pallet until located in basement.
4. Dimensions of base-support unit – Length 1m, Width 1m, Height 0.9m.
5. The building is 30 m long (front to rear) x 50 m wide. The shaft is located as per the diagram and midway between the two sides of the building. There is no hard standing at the sides of the building – only at the front.
6. Underground basement has separate maintenance access.
7. Scaffolding extends 1.5 m from the building.
8. Scaffolding handrails are 1.5 m high with one set encircling the shaft.
9. Underground ducting runs parallel to the front of the building and is 1 m wide and 1/2 metre deep.
10. Concrete area extends 15 m from the front of the building. Ground conditions on each side and the rear of the building are unsuitable for lifting purposes.
11. Customer – Meteor Construction. Site – RSB Headquarters. Site Contact – A Holbetts, 01788 674 7483
12. Ground bearing pressure not to exceed 25 t/m<sup>2</sup>

**Important – This drawing is NOT to scale.  
All dimensions are in metric units.**



# Appointed Person

## Lifting Operations

A61

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

**The Candidate must achieve all asterisked items and a minimum of 8 of the remaining items to be successful on the test**

	Criteria	Standard	Y / N
Section A (1) General details	1 customer	<i>as stated in given scenario</i>	
	2 name of site contact	<i>as stated in given scenario</i>	
	3 phone number of contact	<i>as stated in given scenario</i>	
	4 Site location	<i>full description as stated in given scenario</i>	
	5 the description of lift	<i>as stated in given scenario</i>	
Section B (2) Loads	6 the net weight of the load/loads*	<i>as stated in given scenario</i>	
	7 the gross weight of the load/loads*	<i>calculated as weight of load/ hook block and lifting accessories with a minimum FOS identified</i>	
	8 dimensions of the load/loads*	<i>as stated in given scenario</i>	
	9 position of the C of G	<i>as calculated (load is uniform or central)</i>	
	10 height of the lift*	<i>from ground level to bottom of load</i>	
	11 maximum radius*	<i>of load at any given point during the lift</i>	
Section C (3) Crane	12 make and model*	<i>as identified</i>	
	13 the required capacity*	<i>must be the predetermined ideal size &amp; type</i>	
	14 main boom length required	<i>as per selected crane specifications</i>	
	15 fly jib length and angle (if required)	<i>as per selected crane specifications</i>	
	16 outrigger spread*	<i>as per selected crane specifications</i>	
	17 mat/pad size	<i>as calculated</i>	
	18 rigged weight of crane*	<i>as per manufacturers' specifications</i>	
	19 additional counterweights (if required)	<i>as per manufacturers' specification</i>	
Section D (4) Ground conditions	20 access and egress points for the crane*	<i>as stated in given scenario</i>	
	21 access and egress points for other transport	<i>as stated in given scenario</i>	
	22 the required lifting position*	<i>as stated in given scenario</i>	
Section E (5) Lifting accessories	23 the type and length required*	<i>suitable type(s) identified</i>	
	24 correct WLL identified*	<i>accurate</i>	
	25 the number of lifting accessories required*	<i>number identified</i>	

*continued...*

	Criteria	Standard	Y / N
Section F (6a) Proximity hazards (as applicable)	26 overhead power lines*	<i>identified as yes or no</i>	
	27 other types of overhead obstacles*	<i>identified as yes or no</i>	
	28 underground services*	<i>identified as yes or no</i>	
	29 excavations*	<i>identified as yes or no</i>	
	30 unstable/soft ground*	<i>identified as yes or no</i>	
	31 hazardous chemicals/materials	<i>identified as yes or no</i>	
	32 confined working areas*	<i>identified as yes or no</i>	
	33 restricted access – width*	<i>identified as yes or no</i>	
	34 restricted access – height*	<i>identified as yes or no</i>	
	35 other vehicles	<i>identified as yes or no</i>	
36 other hazards*	<i>identified as yes or no</i>		
Section G (6b) Load hazards	37 slinging difficulties*	<i>identified as yes or no</i>	
	38 top heavy loads*	<i>identified as yes or no</i>	
	39 sharp edged loads*	<i>identified as yes or no</i>	
	40 other hazards*	<i>identified as yes or no</i>	
Section H (7) Assessment of risk	41 hazards (not included in items 26-36)*	<i>identified</i>	
	42 risk s against the hazards in item 41*	<i>identified</i>	
	43 action to be taken to avoid/reduce risk as in item 41*	<i>identified</i>	
	44 risk s against the hazards in items 26-36*	<i>identified</i>	
	45 action to be taken to avoid/reduce risk as in items 26-36*	<i>identified</i>	
Section I (8)	46 the equipment the crane must come equipped with	<i>identified (must state if information is contained in method statement)</i>	
Section J (9)	47 customer provisions	<i>identified (must state if information is contained in method statement)</i>	
Section K (10) Personnel	48 the number of additional personnel required*	<i>must be minimum of 2 noted – lifting at height or depth requires minimum of 3</i>	
	49 the type of personnel required*	<i>identified</i>	
	50 any PPE that personnel must be equipped with*	<i>identified</i>	
Section L (11) Lifting accessories	51 supplier of lifting accessories	<i>identified</i>	

continued...

	Criteria	Standard	Y / N
Section M (12) Weather / Environmental and ground conditions	52 conditions when the lifting operation must be shut down	<i>as per crane manufacturers' recommendations</i>	
	53 instruction to check wind speed at point of lift*	<i>identified</i>	
Section N (13) Ground conditions	54 ground conditions, and stated all precautions to be taken*	<i>identified</i>	
Section O (14) Sequence of operations	55 the sequence of operations*	<i>logical order, does not cause incident or greater, is without confusion</i>	
Section P (15) Contingency statement	56 include a contingency statement*	<i>In case of interruption of lift etc.</i>	
Section Q Drawing	57 did the drawings (plan and elevation) show the positioning of the crane*	<i>clear and identifiable</i>	
	58 did the drawings correctly show the positioning of the crane, load (before and after lift) and ancillaries*	<i>clear and identifiable</i>	
	59 clearly marked to scale*	<i>scale clearly identified, matched to drawing and suitable to show detail</i>	
Section R Additional	60 were the contents of the method statement understandable to others who may be involved in the lift*	<i>clear, decipherable and coherent</i>	

**The Candidate must achieve all asterisked items and a minimum of 8 of the remaining items to be successful on the test**

Achieved / Not achieved

<b>Tester observations</b>	<p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p> <p>.....</p>
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<b>Sign off</b>	<p>I confirm that I have carried out the Practical Technical Test in accordance with CPCS requirements and that the candidate has:</p> <p style="text-align: right;">Achieved <input type="checkbox"/>      Not achieved <input type="checkbox"/></p> <p><b>Candidate signature:</b> _____</p> <p><b>Tester signature:</b> _____</p>
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<b>CITB-ConstructionSkills Grant claim details</b>	<p>Grant is only payable for the award of a full Technical Test or Advanced Technical Test pass (both practical and theory elements to a maximum of 2 categories in any Grant Scheme year) in accordance with the full Grant Scheme rules.</p> <p>Employer <b>does not</b> intend to claim a Technical Test pass grant <input type="checkbox"/> No further information required</p> <p>Employer <b>does</b> intend to claim a Technical Test pass grant <input type="checkbox"/> Please complete additional fields below</p> <p><b>CITB-ConstructionSkills Levy Grant Registration Number (7 digits)</b>    <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/></p> <p><b>Employer Name</b> _____</p> <p><b>Employer Postcode</b> _____</p>
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<b>Internal use</b>	<p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p> <p> </p>
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# Crane/Lifting Operations Supervisor

**A62**

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>Lifting equipment (crane) having a varying radii and slewing facility</li> </ul>
Area	<ul style="list-style-type: none"> <li>Ground, clear of hazards which must include facilities/obstruction to enable a load to be placed out of sight of the crane operator</li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>A selection of serviceable certificated lifting accessories, in excess of what is required for the load</li> <li>An anemometer</li> <li>A pre-constructed lift plan</li> </ul>
Loads	<ul style="list-style-type: none"> <li>1 x bundled load that does not have fixed lifting points</li> </ul>
Notes	<ul style="list-style-type: none"> <li>The crane selected for the test must be not less than 25 tonnes lift capacity, hoist rope equipped, be in a serviceable condition and conform with current legislation</li> <li>All lifting accessories must be fit-for-purpose and certificated</li> <li>The weight of all loads must be known</li> <li>The crane operator and the slinger and signaller must be certificated and competent</li> <li>The Instructor conducting this test must construct a lift plan using the CPCS Lifting Operations Risk Assessment/Method Statement template. The plan must be constructed incorporating the working area, type of lifting equipment (crane) and the requirements of the exercises detailed in the activity and must: <ul style="list-style-type: none"> <li>involve a boom angle change of not less than 30 degrees and slewed at least through 180 degrees. The load will be landed at a different point from the pick-up point and within a location that is out-of-site of the crane operator</li> <li>contain the actual lifting accessories required for the load</li> <li>state that the working area must be cordoned off</li> <li>contain a maximum wind speed for operations shut down</li> </ul> </li> <li>The completed lift plan must then be passed to the candidate at the start of the test</li> </ul>

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>The sequence of events shall be in numerical order</li> </ul> <p>The test must be completed within a given time. The specifications' section gives further information.</p>
Preparation of the work area	<ol style="list-style-type: none"> <li>Receive and study the lift plan</li> <li>Ensure all personnel involved in the lifting operation are suitably qualified, suitable attired and inform them of their duties</li> <li>Prepare the area of operation</li> </ol>
Setting up for work	<ol style="list-style-type: none"> <li>Mark the position of the crane and guide the crane from the site entry point to the required location (the crane must be a minimum of 10 metres away from the lift point)</li> <li>Ensure that the crane is fit-for-purpose and suitably certificated</li> <li>Identify the weight of the load and its characteristic</li> <li>Check landing area and mark exact position for landing the load</li> </ol>
Working tasks (refer to specifications)	<ol style="list-style-type: none"> <li>Indicate to the slinger the position of lifting accessories on the load</li> <li>Ensure accessories attached as per lift plan</li> <li>Check integrity of the load</li> <li>Ensure load is moved and landed as per lift plan</li> <li>During the moving of the load, demonstrate the action of an emergency stop</li> </ol>
Completing work	<ol style="list-style-type: none"> <li>Ensure load is safe and accessories returned to storage</li> <li>Debrief all personnel involved in the lifting operation, and verbally report aspects of the lift to the Appointed Person</li> <li>Guide the crane from the lift position back to the site access point</li> </ol>
Notes	<ul style="list-style-type: none"> <li>During the test, the Tester will undertake the role of the Appointed Person</li> <li>All hand signals must conform with BS 7121 Part 1</li> </ul>

#### Activity measurements

Test timings	<ul style="list-style-type: none"> <li>The test must be completed within 2 hours</li> </ul>
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### Risk Assessment

**Note:** This form can only be used for the purposes of CPCS appointed person and crane supervisor training, assessments and testing, and is used with kind permission of the Construction Plant-Hire Association.

A drawing showing the lift details must accompany this form. All boxes **MUST** be completed with either the required information or marked N/A.

Drawings must show plan and elevation and be in an identifiable scale

**Important – All submitted data must be in metric units.**

Assessment Scenario No	Date of Assessment:
Candidate Name	Location of Assessment

#### 1. General Details

Customer:	
Site contact:	Telephone:
Site Location:	
Description of lift:	

#### 2. Details of Load

Weight:	Net
	Gross
Dimensions:	
Position of C of G:	
Height of lift	
Max radius	

### 3. Details of Crane

Make & model:	
Capacity:	
Boom length required:	
Fly jib length and angle (if required) or N/A	
Outrigger spread: <i>show dimensions on drawings</i>	
Mat/Pad size	<i>Show all calculations</i>
Rigged Weight of Crane:	

### 4. Ground Conditions

Access/egress for crane & transport:	
Lifting position:	

### 5. Lifting Accessories

Slings (wire rope):	Slings (webbing):
Slings (chains):	Shackles:
Other Accessories:	

### 6a. Identification of Hazards (Proximity)

Proximity Hazards	Present?
Overhead power lines	Yes / No
Other overhead obstacles	Yes / No
Underground services	Yes / No
Excavations	Yes / No
Unstable/Soft ground	Yes / No

Proximity Hazards (cont.)	Present?
Hazardous chemicals/materials	Yes / No
Confined working area	Yes / No
Restricted access – width	Yes / No
Other Hazards identified	Yes / No

### 6b. Identification of Hazards (Load)

Load Hazard	
Slinging difficulties	Yes / No
Top heavy	Yes / No
Sharp edges	Yes / No
Other hazards identified	Yes / No

### 7. Assessment of Risk

Hazard Present	Risk	Action to Avoid or Reduce Risk

*Continue on a separate sheet if needed.*

### 8. Operational Requirements:

What crane should come equipped with
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### 9. Customer Provisions:

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### Method Statement

#### 10. Personnel

The following personnel (*please state*) will be provided, complete with relevant personal protective equipment. The duties of these people will be as defined in British Standard 7121:

Title	Responsibility	Required PPE

*Continue on a separate sheet if needed.*



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*Continue on a separate sheet if needed.*

### 15. Contingency Statement

### 16. Candidate's Confirmation\*

I confirm that I have prepared the Risk assessment and Method Statement, and the lift has been planned in accordance with current legislation and British Standard 7121

**Signed:**

**Date:**

Note \* For the purposes of Crane Supervisor Training and Testing, the Instructor shall sign this section.

# Crane/Lifting Operations Supervisor

# A62

## 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 Prepared and ensured area is safe and prepared for work		
	2 Fully briefed all additional personnel on the details of the lift		
	3 Agreed the signal codes with all personnel involved with the lift		
	4 Checked the suitability and qualifications of additional personnel		
Setting up	5 Marked the position of the crane		
	6 Guided the crane to the exact position for setting up		
	7 Checked the landing area prior to the lift taking place		
	8 Verified the set-up configuration of the crane		
	9 Verified the RCI settings with the load and radius		
	10 Checked the route for hazards and ensured the area was safe		
	11 Identified the weight and centre of gravity of the load		
	12 Checked the environmental conditions prior to the lift taking place		
Working	13 Ensured that the lifting accessory(ies) attached to the load		
	14 Used effective hand signals that conformed to the agreed code		
	15 Ensured that the load landed where required		
	16 Ensured load integrity		
Completing	17 Ensured all lifting accessories removed and stored		
Other	18 Complied with Lift plan requirements		
	19 Conformed with legislation, regulations and Codes of Practice		
	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
Working	1	Guide the crane to the site access point		3	
	2	Tag lines were deployed and used		2	
	3	Check that all personnel have correct PPE		5	
	4	Debriefing not carried out to all personnel		3	
	5	No report aspects of the lift to the AP		2	
<b>Not exceeded 8 penalties</b>			Total penalties		
					Achieved / Not achieved



# Tower Crane

**A63**

Pedestrian Operated

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 3 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>• Signaller (for specific activities)</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 unbalanced</li> <li>• <b>LOAD 3</b> 1 x 'bundled' load of 4 metre minimum lengths of tubing or rods etc.</li> </ul>
Notes	<ul style="list-style-type: none"> <li>• The crane selected must be of a self-erect design with at least a pendant control box with an under-hook height of at least 14 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>• Maximum radius equates to the configuration of the crane being used for the test</li> <li>• All lifting accessories must be fit-for-purpose and certificated</li> <li>• The weight of all loads must be known</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 signaller must be 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 3–7 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 2 which must be at mid-radius, rotate over the structure and land in a designated position using a minimum of 75% radius. On completion return the load to the original start point and land at a designated place</p> <p>5 Lift LOAD 3 which must be at minimum radius and rotate for a minimum of 360 degrees. Land at a designated place</p> <p>6 Simulate pouring a wall by travelling a load in a straight line for a distance of not less than 6 metres</p> <p>7 Recover simulated 2 metre load swings</p> <p>8 Lift a load from a given position, and land in a designated place out-of-sight of the Candidate</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 assessor must check that the candidate has programmed the RCI/LMI correctly before carrying out each activity</li> <li>On activities 3, 5 and 6, the load must follow the ground contours and able to be handled</li> <li>On activity 6, the line must be angled so that both slew and trolley travel functions are used simultaneously</li> <li>Activity 8 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>The signaller must be used for activity 8 and for the purposes of the test, all hand signals shall conform with BS 7121 Part 1: 2006</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>
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

# A63

Pedestrian Operated

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"/> 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/LMI programmed for all lifting duties		
	6 Communication arrangements confirmed with the signaller		
Working	7 SWL not exceeded at all times		
	8 Load integrity and 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 shutting 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		

**All of these items must be awarded**

Achieved / Not achieved

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

<b>Tester observations</b>	.....
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<b>Sign off</b>	I confirm that I have carried out the Practical Technical Test in accordance with CPCS requirements and that the candidate has:
	Achieved <input type="checkbox"/> Not achieved <input type="checkbox"/>
	<b>Candidate signature:</b> _____
	<b>Tester signature:</b> _____

<b>CITB-ConstructionSkills Grant claim details</b>	Grant is only payable for the award of a full Technical Test or Advanced Technical Test pass (both practical and theory elements to a maximum of 2 categories in any Grant Scheme year) in accordance with the full Grant Scheme rules.							
	Employer <b>does not</b> intend to claim a Technical Test pass grant <input type="checkbox"/> No further information required							
	Employer <b>does</b> intend to claim a Technical Test pass grant <input type="checkbox"/> Please complete additional fields below							
	<b>CITB-ConstructionSkills Levy Grant Registration Number (7 digits)</b> <table border="1" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td><td style="width: 20px; height: 20px;"></td></tr></table>							
<b>Employer Name</b> _____								
<b>Employer Postcode</b> _____								

<b>Internal use</b>	
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# Demolition Plant

A65

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>Demolition adapted 360 Excavator:             <ul style="list-style-type: none"> <li>fitted with the relevant attachment</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>stockpile of mixed material (for sorting purposes)</li> <li>structure for demolishing</li> <li>area for attachment changing activity</li> </ul> </li> </ul>
Other equipment	<ul style="list-style-type: none"> <li>Load-carrying vehicle for material</li> <li>A replacement attachment</li> <li>Items to create restrictions for manoeuvring</li> <li>Method statement applicable to the demolishing process</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>Endorsement A – a standard 360 excavator with the appropriate re-handling attachment may be used</li> <li>Assistance may be supplied for attachment changing</li> <li>The operator's manual (including the attachment) must be with the machine</li> <li>Endorsements A and B only – 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>Endorsements C and D only – a ramp having a gradient of 10 degrees and at least 4 metres wider than the track frame width of the machine</li> <li>The stockpile (for sorting purposes) must be of sufficient quantity to allow at least 30 minutes of operation</li> <li>The structure must be of sufficient content to allow at least 40 minutes of operation and be at least 30% of the attachment's operated height</li> <li>The nominated area must be safe and supported by an appropriate risk assessment</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</li> </ul> <p style="text-align: right;"><i>continued...</i></p>

### RESOURCES (CONTINUED)

#### Required

Notes continued	<ul style="list-style-type: none"> <li>The endorsement descriptions are defined as:                     <p><b>Endorsement A:</b> Material processing – equipped with mechanical or hydraulic attachment (grab / claw) to select and stockpile like materials</p> <p><b>Endorsement B:</b> Demolishing up to 15 metres – height that the demolishing attachment can reach and relates to the attachment to dipper pin height</p> <p><b>Endorsement C:</b> Demolishing up to 30 metres – known as high reach, height that the demolishing attachment can reach and relates to the attachment to dipper pin height</p> <p><b>Endorsement D:</b> Demolishing all heights – above 30 metre machines known usually as ultra-high reach</p> </li> </ul>
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Further clarification about Demolition Plant categories and endorsements may be found at [www.demolition-nfdc.com](http://www.demolition-nfdc.com) or by contacting [info@demolition-nfdc.com](mailto:info@demolition-nfdc.com)

### ACTIVITY

#### Instructions

Sequence	<ul style="list-style-type: none"> <li>Activity 1 must be undertaken at the start of the test</li> <li>Activities 4 to 7 can be undertaken in any order during the test</li> <li>Activity 9 must be undertaken at the end of the test</li> </ul>
Preparing for work	1 Complete all manufacturers' pre-start and running checks and prepare the machine 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 (relevant to each endorsement)</li> <li>– pass through a restriction</li> <li>– travel over rough terrain</li> </ul>
Setting up for work	3 Prepare and set the machine for the relevant work 4 Change the attachment to a different type
Working tasks (refer to specifications)	5 From a stockpile of different materials, sort, segregate and form stockpiles of similar materials 6 Load sorted materials into a vehicle 7 Demolish a structure 8 Tidy up and make safe the working area
Shutting down	9 Park the machine 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 (CONTINUED)

#### Activity measurements

Travel restrictions	<ul style="list-style-type: none"><li>• 800 mm</li></ul>
Sorting activity (5 and 8)	<ul style="list-style-type: none"><li>• To be carried out for a minimum time of 30 minutes</li></ul>
Demolishing activity (7 and 8)	<ul style="list-style-type: none"><li>• To be carried out for a minimum time of 40 minutes</li></ul>
Loading vehicle (6 and 8)	<ul style="list-style-type: none"><li>• Loaded to capacity</li></ul>



# Demolition Plant

# A65

## 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"/> B <input type="checkbox"/> C <input type="checkbox"/> D <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 Restrictions cleared			
	3 Machine set for travel			
Travelling	4 Encountered hazards cleared			
	5 Boom/dipper arm 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 carrying out the activity			
	8 Positioned and set for the activity			
Working (attachment)  (demolishing)	9 Machine disabled prior to disconnecting hydraulic hoses			
	10 Hoses removed and fitted following required sequence			
	11 Attachment prepared/positioned/supported prior to removal and fitting			
	12 Attachment removed and fitted following required sequence			
	13 Checked attachment was secure prior to use			
	14 Functional check carried out prior to use			
	15 Checked exclusion area for size and security			
	16 Maintained check on effectiveness of exclusion zone during work			
	17 Structure demolished following method statement or given instructions			
	18 Sequence of hydraulic controls			
	19 Smooth use of all controls			
	(sorting)	20 Maintained stability of the machine		
		21 Material sorted and stockpiled into like materials		
		22 Complied with environmental requirements		
(loading)	23 Sequence of hydraulic controls			
	24 Smooth use of all controls			
	25 Materials loaded as per given specification			
	26 Sequence of hydraulic controls			
	27 Smooth use of all controls			
Shutdown	28 Vehicle evenly loaded but not overloaded			
	29 Working areas safe and secure after work			
Other	30 All shutdown and securing procedures			
	31 Legislation, manufacturers' and health and safety requirements complied with			

**All of these items must be awarded**

Achieved / Not achieved

### FAULTS

**Candidate incorrectly carried out the following:**

	Fault	Mark	Penalty
Travelling	1 Machine mounting and dismounting	1	
	2 Full observation before moving	3	
	3 Full observation whilst travelling	2	
	4 Observation before slewing upper structure	2	
	5 Drive sprockets kept to the rear when travelling	1	
	6 Travel speed matched to the ground type and conditions	1	
	7 Tight turns avoided when travelling (tracked machines only)	1	
Working	8 Material cleanly placed into the loading vehicle	2	
	9 Contact with vehicle avoided when loading	3	
	10 Use of track controls	2	
<b>Not exceeded 8 penalties</b>		Total penalties	
			Achieved / Not achieved



# Compact Crane

**A66**

Up to 10 tonnes

Technical Test – Practical

## RESOURCES

### Required

Machine	<ul style="list-style-type: none"> <li>• Compact crane having:             <ul style="list-style-type: none"> <li><b>Endorsement A</b> <i>Static-stabilisers</i> <ul style="list-style-type: none"> <li>– 4 outriggers minimum</li> <li>– 360 degree slewing upper structure</li> <li>– Telescopic boom</li> <li>– Hoist rope</li> </ul> </li> <li><b>Endorsement B</b> <i>Mobile Industrial</i> <ul style="list-style-type: none"> <li>– Capability for pick-and-carry duties</li> <li>– Wheeled or tracked chassis</li> <li>– Non-slewing Telescopic boom</li> </ul> </li> <li><b>Endorsement C</b> <i>Luffing Static duties</i> <ul style="list-style-type: none"> <li>– Trailer or vehicle mounted</li> <li>– 4 outriggers minimum</li> <li>– 360 degree slewing upper structure</li> <li>– Telescopic boom with luffing extension</li> <li>– Hoist rope</li> </ul> </li> <li><b>Endorsement D</b> <i>360 – Pick and Carry</i> <ul style="list-style-type: none"> <li>– Telescopic boom</li> <li>– 360 degree slewing upper structure</li> <li>– Wheeled or tracked chassis</li> <li>– Capability for static and pick-and-carry duties</li> <li>– Hoist rope</li> </ul> </li> </ul> </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> <li>• Incline or inclines (for Endorsements A and D only)</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 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% full radius of the crane (excluding the extension)</li> <li>• <b>LOAD 2</b> 1 x load being a tube or structure not less than 4 metres in length</li> <li>• <b>LOAD 3</b> 1 x load being at least 75% of the crane's rated capacity</li> </ul>

*continued...*

## RESOURCES CONTINUED

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 crane</li> <li>• Duties charts for the crane being used for the test must be available for use</li> <li>• The slinger/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> <li>• The incline must be narrow and not less than 18%, with a defined fulcrum between the horizontal and the angled planes, and no more than 100 mm clearance between the machine and incline’s sides</li> </ul>
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## 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 3 and 4 may be undertaken before or after activities 6–11</li> <li>• Activity 11 may be incorporated within activities 6–10</li> <li>• Activity 15 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)	2 Travel or manoeuvre to the work area 3 Endorsement A and D – travel up and down the incline
Setting up for work	4 Endorsement B – manoeuvre through a chicane executing full right- and left-hand turns of at least 90 degrees in a forward and reverse direction 5 Endorsements A and D – execute full right- and left-hand turns of at least 90 degrees 6 Position, prepare and set the crane for each lift

*continued...*

ACTIVITY CONTINUED

Working tasks (refer to specifications)	<p>7 All endorsements – lift LOAD 1 which must be at 75% of maximum radius, and land at minimum radius at a designated place</p> <p>8 Endorsements A and D only – lift LOAD 2 which must be at ground level and minimum radius, rotate for at least 270 degrees keeping the load at a constant height and land in a designated place. On completion return the load to the original start place and land in a designated place</p> <p>9 Endorsement B only – lift LOAD 2 and travel with the load suspended for a minimum distance of 15 metres whilst travelling the route as in activity 4 in both forward and reverse directions</p> <p>10 Endorsement C only – lift LOAD 1 and land at a designated place at two different places using the full reach of the luffing jib. On completion on landing the load, return the load to the original start place</p> <p>11 Endorsements A and D only – lift LOAD 3 from a designated position, rotate for at least 270 degrees, and land at a designated place which involves a change of radius</p> <p>12 Endorsements B and D only – lift LOAD 3 and travel with the load suspended for a minimum distance of 10 metres whilst executing turns as in activity 4 or 5 respectively</p> <p>13 Endorsements A, C and D only – lift and move a load from a given position and land in a designated place out-of-sight of the Candidate</p> <p>14 All loads to be made safe following each activity</p> <p>15 On completion of all lifting activities, configure the crane for travel</p>
Shutting down	15 Park the crane and carry out shut-down and securing procedures
Notes	<ul style="list-style-type: none"> <li>• The Tester must ensure that the Candidate has programmed the RCI or LMI correctly before carrying out each activity</li> <li>• On activities 7, 8, 11 and 13, the load must follow the ground contours and able to be handled by the slinger/signaller</li> <li>• Activity 13 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 purposes of the test, all hand signals shall conform with BS 7121 Part 1:2006</li> <li>• Activity 13 may be incorporated with activities 7, 8, 10 or 11</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	<ul style="list-style-type: none"> <li>• Activity 9 – maximum clearance less than 100 mm or 10% of the machine's width (the greater applies) between the chicane sides and the crane, when undertaking each turn</li> </ul>
Load placing	<ul style="list-style-type: none"> <li>• To be landed within 100 mm of a given position</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>



# Compact Crane

# A66

Up to 10 tonnes

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"/> B <input type="checkbox"/> C <input type="checkbox"/> D <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 Setting the crane correctly for travel		
Travelling	3 Restrictions cleared		
	4 Encountered hazards cleared		
Setting up	5 Area checked and safe prior to setting up for lifting and depositing loads		
	6 Crane positioned prior to lifting loads		
	7 Stabilisers set (A & C only)		
	8 Ensured crane was level prior to lifting loads		
	9 RCI/LMI programmed for all lifting duties		
Working	10 Communication arrangements confirmed with the signaller		
	11 SWL not exceeded at all times		
	12 Load integrity and stability maintained at all times		
	13 Loads did not contact any obstructions		
	14 Lift, move and lower all loads in a controlled manner		
	15 Route assessed and travelled with the suspended load in a controlled manner (Endorsements B and D only)		
	16 Instructions conformed with		
Shutdown	17 Crane re-configured from lifting to travelling duties		
	18 Parked in appropriate place		
Other	19 All shutdown and securing procedures		
	20 Legislation, manufacturers' and health and safety requirements complied with		
	21 Test completed within the given time		

**All of these items must be awarded**

Achieved / Not achieved
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FAULTS		Candidate incorrectly carried out the following:	Fault	Mark	Penalty
Travelling	1 Crane mounting and dismounting (ride-on units)			1	
	2 Full observation before moving and reversing			3	
	3 Full observation whilst travelling			2	
	4 Full observation before slewing the upper structure or telescoping boom			2	
	5 Lifting accessories kept clear of the ground			1	
Working	6 Load swings kept within 0.5 of a metre / rectify swinging			2	
	7 All loads placed at the given points within the given tolerance			2	
	8 Each load lifted clear of surface and checked for integrity			2	
	9 All loads lifted vertically			2	
	10 Sequence of using lifting controls			2	
	11 Smooth use of steering and lifting controls			1	
<b>Not exceeded 8 penalties</b>				Total penalties	
					Achieved / Not achieved

