

# 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>

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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

