

# Technical Test Theory

## Crusher A42



No.	Question
1	As far as is reasonably practical, where should crushing operations be kept clear of?
2	If the operator has to top-up the hydraulic oil, state TWO precautions to ensure cleanliness of the system.
3	Name FIVE items of specific PPE applicable to crusher operations.
4	List TWO items that should be considered if the operator is working alone for long periods.
5	a) What determines the minimum distances that any part of plant and machinery has to be kept from over head electricity lines and b) explain why a distance should be kept.
6	Give THREE reasons that may cause a mobile crusher to tip over sideways during travel.
7	Give TWO reasons why the operator should have an understanding of the type of material being loaded for crushing.
8	Name the FOUR key causes of accidents that occur during crushing operations.
9	Before leaving the machine for a rest break, after switching off the machine, what final action must be carried out?
10	During work, the engine starts to overheat. Explain the danger if someone tries to remove the radiator or expansion tank cap.
11	Why is it recommended to leave a layer of material in the feed hopper during loading?
12	a) Which part of the crusher applies loading or pressure to the ground and b) name ONE way that pressure can be reduced.

No.	Question
13	Apart from the operator, who else may need to use the machine's Operator's Manual?
14	a) What is the minimum distance allowed near open trenches when travelling with a mobile crusher and b) explain why?
15	What does the Health and Safety at Work Act require employers to do with regards specifically to plant?
16	The operator has to use a new type of crusher that they are unfamiliar with. What do Regulations (i.e. PUWER 98) and other guidance require the operator to have?
17	Explain SIX requirements to be taken into account when positioning a crusher prior to work.
18	List SIX typical subject areas that should be covered in a site induction.
19	Name: a) THREE differences between 'cone' and 'jaw'-type crushers and b) ONE suitable application for each.
20	a) When would a harness be used and b) what determines how or what type is used?
21	Name THREE ways in which an operator can minimise their impact upon the environment whilst using the machine.
22	If a crusher has appeared to stall, what are the THREE initial steps to take before remedial work starts?
23	What THREE main duties of the Health and Safety at Work Act must employees follow?
24	What checks should be made to stockpiled materials at the end of a working day?

No.	Question
25	Give TWO examples of where The Work at Height Regulations 1995 may apply to crusher operations.
26	a) What is the purpose of a magnetic separator and b) where would it be located?
27	Name FOUR different types or levels of disciplinary actions or sanctions that can be applied (by employers and judicial bodies) to operators of plant who do not comply with, or follow legislation and regulations.
28	How can a qualification or card benefit a plant operator?
29	Apart from water, name THREE other methods that can be used to minimise dust.
30	If parking a mobile unit away from the working area, name THREE places where the machine should NOT be parked.
31	What is the meaning of this hand signal (being demonstrated by the Tester)?
32	a) What is the purpose of a Method Statement and b) what is required of the operator?
33	Name TWO things that can cause 'bridging'.
34	Using the Operator's Manual, state the cold-starting procedure for the machine. Note: The Operator's Manual for the machine being used for the test MUST be available for reference by the candidate.
35	What TWO problems can wet weather cause?
36	During an unblocking activity, even though the crusher may be switched off: a) what else must be done and b) why?

No.	Question
37	If setting up to work near a pedestrianised area, state THREE factors that need to be taken into account.
38	What are the THREE actions or stages that a crusher operator undertakes during pre-use inspections?
39	If checking the oil level using a dipstick, why must gloves be worn?
40	Name FIVE possible dangers to health if operating the crusher from the platform.
41	For mobile crushers, when MUST a banksman/signaller be used before moving a mobile crusher?
42	What are the requirements for the ramps that are to be used by loading shovels loading the crusher?
43	What problems and hazards can soft ground cause when travelling a mobile unit across a site?
44	What are the possible outcomes of facing prosecution for not complying with legislation and regulations?
45	A previous, traditional method of clearing blockages was the use of a wedge or mouse. Explain why this method must not be used.
46	Why should the engine speed be set to the manufacturer's recommendations on magnet-equipped machines?
47	Name FOUR possible causes for blockages in crushers.
48	Why are plant operators generally regarded as 'safety-critical' workers?

No.	Question
49	When using water suppression, where should the water be applied?
50	What FOUR steps should initially be taken should a crusher be blocked before remedial work starts?
51	What is the definition of, or how can a hazard be described?
52	Describe ONE method of how to adjust a cone-type crusher to produce the desired aggregate size.
53	What is the purpose of the sizing bars on the crusher feed?
54	Using the Operator's Manual, state the procedure for adjusting conveyor belt tension. Note: The Operator's Manual for the machine being used for the test MUST be available for reference by the candidate.
55	Where should the crusher's Operator's Manual be kept and why?
56	Why should a crusher be re-fuelled at the end of the day?
57	Name THREE requirements of the Noise at Work Act 1994 that apply to crusher operations.
58	What is the purpose of a risk assessment?
59	The crusher operator has been asked to drive a mobile crusher onto a transporter/trailer. a) Who is responsible for the loading operations and b) state FOUR actions to be considered by the operator before loading commences.
60	If radios are to be used during the crushing operations, what FOUR actions and checks must be made by the loading and crusher operators before use?

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61	When is it permitted to enter the crushing chamber area?
62	Name THREE ways that a plant operator can contribute in ensuring repeat business with the client or principal contractor.
63	What are the requirements for the standing for loading excavators?
64	If a trench has a depth of 2 metres: a) What is the minimum distance to maintain from the edge of the trench when forming stockpiles and b) explain why?