

A22 – Tracked loading shovel

No.	Question
1	a) What is the purpose of a Method Statement and b) what is required of the operator?
2	How can tracks be prevented from becoming frozen to the ground during cold weather?
3	Why are most tracked loading shovels rear-engined?
4	Why are plant operators generally regarded as 'safety-critical' workers?
5	Where should the loading shovel's Operator's Manual be kept and why?
6	a) What effect on loader operations does making too deep a cut have when filling the bucket and b) what effect does making too shallow a cut have?
7	Name THREE ways that a plant operator can contribute in ensuring repeat business with the client or principal contractor.
8	How can a qualification or card benefit a plant operator?
9	What is regarded as the most productive position for the dump truck to be in when being loaded by a loading shovel working from a stockpile?
10	a) What are the functions of 'grousers' or 'cleats' as found on track pads and b) what is the result if they are excessively worn?
11	What is the purpose of a roll or ROPS frame?
12	What is the purpose of a risk assessment?
13	Name THREE conditions that mirrors on the machine must be in.
14	Whenever possible, who should decide the positioning of the dump truck when being loaded?
15	Many loading shovels have a turbo-charged engine. a) What is the normal procedure before switching off the engine after working and b) what happens if the procedure is not followed?
16	When working in a confined area or space: a) what danger can be present with regards to the counterweight of the machine, b) what is the recommended minimum distance and c) what measures must be implemented if the gap is less?
17	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.
18	When working in a confined area or space, name THREE hazards that can occur.
19	What factors determine the shoring requirements of a trench?

A22 – Tracked loading shovel

20	Tracked loading shovels are normally equipped with a clamshell bucket. Name FOUR functions of this type of bucket.
21	The operator has to use a new type of tracked loader that they are unfamiliar with. What do Regulations (i.e. PUWER 98) and other guidance require the operator to have?
22	When backfilling trenches by pushing spoil toward the trench, why should the bucket start to be emptied/raised before reaching the trench?
23	Name THREE ways in which an operator can minimise their impact upon the environment whilst using the machine.
24	Name TWO types of equipment used to ensure that excavation levels, measurements and positions are to the required specification.
25	Why should different materials be segregated during excavating?
26	How are loading shovel bucket sizes calculated?
27	If setting up to work near a pedestrianised area, state THREE factors that need to be taken into account.
28	Give TWO examples of where The Work at Height Regulations 1995 may apply to loading shovel operations.
29	Give FOUR reasons that may cause the loading shovel to tip over sideways.
30	What is the definition of, or how can a hazard be described?
31	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.
32	Describe TWO actions to be taken for an open trench at the end of a working day.
33	What THREE main duties of The Health and Safety at Work Act must employees follow?
34	If a load has to be tipped on a slope, what may happen if the load is tipped downhill and why?
35	Before manually changing any bucket: a) Where should the bucket be positioned (in relation to the ground) before removing the final pin and b) explain why?
36	If checking the oil level using a dipstick, why must gloves be worn?
37	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.

A22 – Tracked loading shovel

38	State TWO requirements of using a stop block or earth bank (berm) at a trench discharging point.
39	If the operator has loaded the machine onto a transporter/trailer on behalf of a driver, what checks must be carried out before they leave the cab?
40	Why must the seat belt be worn, even with the cab door closed?
41	a) What are the purposes of the track guards and b) where would it/they be located?
42	Why is it poor practice to reverse the loader at high speed?
43	When constructing a ramp to load a crusher, name THREE considerations to take into account.
44	Apart from the operator, who else may need to use the machine's Operator's Manual?
45	If the operator has to top-up the hydraulic oil, state TWO precautions to ensure cleanliness of the system.
46	In what situation does a hard hat NOT need to be worn when operating a loading shovel?
47	During work, the engine starts to overheat. Explain the danger if someone tries to remove the radiator or expansion tank cap.
48	Before leaving the cab for a rest break, after parking and switching off the machine, what final action must be carried out?
49	Give TWO reasons why the loading shovel operator should have an understanding of the type of material being loaded.
50	The operator is asked to tip material into a trench. State FOUR different requirements that must be considered or implemented before tipping commences.
51	Give TWO reasons why, wherever possible, operators should excavate the ground in layers.
52	Why should a loading shovel be re-fuelled at the end of the day?
53	a) Give ONE advantage and b) TWO disadvantages of rear-mounted cameras.
54	List SIX typical subject areas that should be covered in a site induction.
55	Using the Operator's Manual, state the figure for setting track tension. Note: The Operator's Manual for the machine being used for the test MUST be available for reference by the candidate.
56	Give THREE possible reasons why loading shovels should not stray off the designated travel routes.

A22 – Tracked loading shovel

57	The operator has been asked to drive the machine 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?
58	Who should determine the maximum load that should be placed into the body of the dump truck?
59	If fitted, describe ONE application when the hand throttle can safely be used.
60	What problems and hazards can soft ground cause to a loaded tracked shovel?
61	What does The Health and Safety at Work Act require employers to do with regards specifically to plant?
62	What are the possible outcomes of facing prosecution for not complying with legislation and regulations?
63	a) What is the minimum distance allowed near open trenches when travelling with a loaded loading shovel and b) explain why?