

Technical Test Theory

Tunnel Locomotive A67



AN NOCN JOB CARD

No.	Question
1	When traversing in a tunnel, name THREE hazards that can occur.
2	What mechanical lifting equipment could be used for re-railment purposes?
3	a) Couplings are subject to what THREE types of potential defects and b) what can cause premature failure of couplings?
4	Name THREE ways in which an operator can minimise their impact upon the environment whilst using the machine.
5	If all communications fail or visibility is lost when breasting a blind, what TWO actions must be taken?
6	Name FIVE control measures that need to be in place when personnel are working in a tunnel.
7	Who decides the positioning of the tunnel locomotive when being loaded?
8	Give TWO reasons why the tunnel locomotive operator should have an understanding of the type of material being transported.
9	Give TWO reasons why the cab should be kept clear of tools, rubbish etc.
10	If a tunnel locomotive is fitted with 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?
11	Name FOUR materials or substances found on a typical locomotive that can contribute to a fire.
12	How can a qualification or card benefit a plant operator?

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No.	Question
13	Where should the ignition key be kept when a locomotive is not in use?
14	Name THREE types of defect that could affect locomotive stability.
15	What FOUR actions in the correct sequence should be taken in the event of a fire on a locomotive?
16	What is the sequence of actions should a locomotive start to skid?
17	What different forms of communication are used within a tunnel to safely control locomotive movements?
18	When uncoupling rolling stock, state the procedure that must be followed.
19	What do the phrases 'inbye' and 'outbye' mean?
20	Give TWO purposes for showing a red light.
21	Why are the couplings on rolling stock free to swivel?
22	Name TWO ways that an unattached item of rolling stock can be prevented from moving.
23	Using the Operator's Manual, state the shut-down procedure for the locomotive. Note: The Operator's Manual for the machine being used for the test MUST be available for reference by the candidate.
24	If a locomotive has derailed, who determines how and where it is to be repaired?

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No.	Question
25	What should be the first thing to be attached after coupling up any item of rolling stock?
26	What is the process for a) refuelling a diesel locomotive and b) what control measures need to be in place?
27	Name THREE ways that a locomotive operator can contribute to ensuring repeat business with the client or main contractor.
28	Give TWO examples of where The Work at Height Regulations may apply to tunnel locomotives.
29	Name THREE features that a properly constructed crossing will have.
30	Who is permitted to shunt in the pit bottom area?
31	What is the minimum distance that any hot works/grinder operations etc. should be away from the fuelling point of any locomotive?
32	Guidance states that visibility from the operators' cab should be sufficient to avoid the need for them to prevent what?
33	Who is ultimately responsible for the safe transportation of loads that are placed into/onto the rolling stock?
34	What are the additional requirements for a weekend shut down over an end of shift shutdown (where the differences are of over 12 hours)?
35	List SIX typical subject areas that should be covered in a site induction.
36	When leaving a battery locomotive at the end of the shift, what TWO actions must the operator ensure?

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37	Where should the tunnel locomotive's Operator's Manual be kept and why?
38	What does the Health and Safety at Work Act require employers to do with regards specifically to plant?
39	Name THREE factors that can cause a lack of traction when moving away from rest.
40	Explain the process for removing a broken-down locomotive from a tunnel.
41	Name FOUR actions to be taken when approaching and passing personnel in a tunnel.
42	Why should a tunnel locomotive be re-fuelled at the end of the day?
43	When parking, where should the tunnel locomotive NOT be parked.
44	What could be a consequence of travelling over a set of points that have not fully closed?
45	What is a tunnel locomotive operator's main purpose or requirement?
46	Plant operators are generally regarded as 'safety-critical' workers. What does this mean?
47	Why should the limbs of the operator not exceed the confines of the cab when travelling?
48	a) Why should battery locomotives not be charged whilst underground and b) why?

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49	Name FOUR different types or levels of sanctions that can be applied to plant operators who do not comply with, or follow legislation and regulations.
50	What is the emergency signal when driving?
51	a) How many track bolts would be used to secure a standard set of fish plates to the rail and b) what would be the consequences of loose or missing track bolts?
52	When reporting defects to either a locomotive and/or associated track, what TWO actions must a locomotive operator undertake?
53	Name THREE types of communication.
54	Other than the braking system, name TWO safety devices used in a tunnel system to halt locomotives.
55	Name FOUR components and/or operating systems that are a statutory required on a locomotive.
56	State THREE instances when a locomotive operator should sound an audible warning device.
57	Using the Operator's Manual, state the working release pressure for the air braking system (diesel) or the battery charge level (electric). Note: The Operator's Manual for the machine being used for the test MUST be available for reference by the candidate.
58	Name FIVE components which need to be checked prior to work commencing.
59	On start up, the air pressure on a locomotive with pneumatic systems is low. What actions must the operator carry out before work and during work?
60	If approaching a crossing to traverse from one set of rails to another and one set of points is not fully closed, what actions should be taken?

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61	The operator has to use a new type of tunnel locomotive that they are unfamiliar with. What do Regulations (i.e. PUWER 98) and other guidance require the operator to have?
62	What is the recommended emergency stopping distance of a loaded train?
63	What is the purpose of a risk assessment?
64	What THREE main duties of the Health and Safety at Work Act must employees follow?
65	What TWO types of information can a locomotive speedometer indicate?
66	What can limit the number of diesel-powered locomotives at any given times underground?
67	What are the possible outcomes if being prosecuted for not complying with legislation and regulations?
68	a) What is the purpose of a Method Statement and b) what is required of the operator?
69	a) Give ONE advantage and b) TWO disadvantages of rear-mounted cameras.
70	When would the sanders on a locomotive be used?
71	Where should a locomotive be positioned if no camera is fitted when hauling loads?

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72	What is the definition of, or how can a hazard be described?
73	What must be used when buffers are not at the same height or type?
74	If two short sharp blasts are sounded on a horn, what does this indicate?
75	a) What are the standard recognised traffic light signal colours when working underground and b) what does each signal colour indicate?
76	a) What are the FOUR standard horn signals when working underground and b) what does each signal signify?
77	What is the procedure for moving off?
78	Name FOUR hazards that can occur with overhanging loads.
79	What distance should the front and rear lights be visible from?
80	Apart from the operator, who else may need to use the machine's Operator's Manual?
81	If operating in the pit bottom: a) what warnings may need to be given and b) when must they be given?