

A34 – Crawler – Tractor/ Dozer

| No. | Question |
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| 1 | The operator has to use a new dozer that they are unfamiliar with. What do Regulations (i.e. PUWER 98) and other guidance require the operator to have? |
| 2 | Where should the dozer's Operator's Manual be kept and why? |
| 3 | Give TWO reasons why the operator should have an understanding of the type of material being dozed. |
| 4 | How can tracks be prevented from becoming frozen to the ground during cold weather? |
| 5 | What is the purpose of a risk assessment? |
| 6 | Give TWO reasons why, wherever possible, operators should excavate the ground in layers. |
| 7 | Describe TWO actions to be taken for an open trench at the end of a working day. |
| 8 | What is the definition of, or how can a hazard be described? |
| 9 | Before removing a blade: a) how should the blade be positioned (in relation to the ground) before removing the final pin and b) why? |
| 10 | Name THREE ways that a plant operator can contribute in ensuring repeat business with the client or principal contractor. |
| 11 | When working on a diagonal side hill cut, how should the blade be set? |
| 12 | If a trench has a depth of 2 metres: a) what is the minimum distance to maintain from the edge of the trench when travelling and b) explain why? |
| 13 | What is a possible effect on the undercarriage when reversing the dozer continually at high speed? |
| 14 | Many dozers 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? |
| 15 | 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? |
| 16 | List FIVE checks that should be made to the tracks and running gear. |
| 17 | Why should different soils be segregated during excavating? |
| 18 | What hazards might arise whilst filling in an excavation with soil? |

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| 19 | <p>a) What determines the minimum distances that any part of plant and machinery has to be kept from over head electricity lines and</p> <p>b) explain why a distance should be kept.</p> |
| 20 | What THREE main duties of the Health and Safety at Work Act must employees follow? |
| 21 | <p>a) What is the purpose of the track guard or guards and</p> <p>b) where would they be located?</p> |
| 22 | What does the Health and Safety at Work Act require employers to do with regards specifically to plant? |
| 23 | <p>a) What is meant by blade capacity and</p> <p>b) how is it determined?</p> |
| 24 | How does a PAT blade work? |
| 25 | The operator is asked to cut a new trench. State FIVE different requirements that must be considered or implemented before work commences. |
| 26 | If a yellow-coloured marker tape is unearthed during excavating, which TWO types of services could this indicate? |
| 27 | If setting up to work next to a pedestrianised area, state THREE factors that need to be taken into account. |
| 28 | <p>a) What are the functions of ‘grousers’ or ‘cleats’ as found on track pads and</p> <p>b) what is the result if they are excessively worn?</p> |
| 29 | <p>Using the Operator’s Manual, state the cold-starting procedure for the machine.</p> <p>Note: The Operator’s Manual for the machine being used for the test MUST be available for reference by the candidate.</p> |
| 30 | What THREE things should be checked out before carrying out embankment work? |
| 31 | If checking the oil level using a dipstick, why must gloves be worn? |
| 32 | If setting up to excavate a slot in a confined area, name TWO things that should be taken into account before starting. |
| 33 | What problem may occur if the wearing plates on the blade are at the maximum wear limit? |
| 34 | <p>The operator has been asked to drive the machine onto a transporter/trailer.</p> <p>a) Who is responsible for the loading operations and</p> <p>b) state FOUR actions to be considered by the operator before loading commences?</p> |
| 35 | Name THREE ways in which an operator can minimise their impact upon the environment whilst using the machine. |
| 36 | Wherever possible, why should the dozer be aligned before making the next pass or cut? |

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| 37 | When backfilling trenches, why should the blade be feathered before reaching the trench? |
| 38 | During work, the engine starts to overheat. Explain the danger if someone tries to remove the radiator or expansion tank cap. |
| 39 | List SIX typical subject areas that should be covered in a site induction. |
| 40 | Why is continual 'back-blading' (using the back of the blade to drag material) generally not considered good practice on harsh ground? |
| 41 | What particular and specific hazards can affect the stability of the machine when working on old industrial (brownfield) sites? |
| 42 | Why must the seat belt be worn, even with the cab door closed? |
| 43 | What action does 'counter-rotation' of the tracks produce? |
| 44 | a) What effect on dozer operations does making too deep a cut have and b) what effect does making too shallow a cut have? |
| 45 | a) How do low ground-pressure units differ from standard-type dozers and b) where would they be used? |
| 46 | 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. |
| 47 | Why should a dozer be re-fuelled at the end of the day? |
| 48 | When parking the machine at the end of the shift, name THREE places where the machine should NOT be parked. |
| 49 | What is the difference between a tilting blade and an angle blade? |
| 50 | If fitted, what function can the float on the blade allow? |
| 51 | What are the possible outcomes of facing prosecution for not complying with legislation and regulations? |
| 52 | Cable avoidance tools (CATs) can detect a variety of buried services. What type of material do they have limitations in locating? |
| 53 | In what situation does a hard hat NOT need to be worn when operating a crawler-tractor/dozer? |
| 54 | Why are plant operators generally regarded as 'safety-critical' workers? |
| 55 | What is the purpose of a roll or ROPS frame? |
| 56 | Before leaving the cab for a rest break, after parking and switching off the machine, what final action must be carried out? |
| 57 | How can a qualification or card benefit a plant operator? |

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| 58 | 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. |
| 59 | Why do dozers have an undercarriage suspension system? |
| 60 | What is the nearest distance allowed to gas pipes when excavating with the machine? |
| 61 | Name TWO types of equipment used to ensure that excavation levels, measurements and positions are to the required specification. |
| 62 | Apart from the operator, who else may need to use the machine's Operator's Manual? |
| 63 | If the operator has to top-up the hydraulic oil, state TWO precautions to ensure cleanliness of the system. |
| 64 | a) What is the purpose of a Method Statement and b) what is required of the operator? |