

# Technical Test Theory

## Telescopic Handler A17



| No. | Question   |
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| 1   | Give FOUR reasons that may cause the machine to tip forwards.  |
| 2   | What is the definition of, or how can a hazard be described?   |
| 3   | After placing a load, who is responsible for ensuring the load is safe?  |
| 4   | On stabiliser-equipped machines, what must be checked before the stabilisers are lowered?  |
| 5   | 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?  |
| 6   | a) What is meant by the lifting or rated capacity of the tele-handler and<br>b) who determines it?   |
| 7   | a) Name THREE purposes of the raised lugs on tyres and<br>b) what can happen to a tele-handler if the lugs are severely worn?  |
| 8   | Name FOUR factors to consider and know before picking up a load.   |
| 9   | a) What determines the minimum distances that any part of plant and machinery has to be kept from over head electricity lines and<br>b) explain why a distance should be kept.                 |
| 10  | If setting up to lift and move loads in a pedestrianised area, state THREE factors that need to be taken into account.   |
| 11  | During work, the engine starts to overheat.<br>Explain the danger if someone tries to remove the radiator or expansion tank cap.   |
| 12  | What would be the effect on the telehandler if a tyre on the front axle is larger or smaller in size than the other tyre on the same axle, or where one tyre has less pressure than the other? |

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| 13  | What are the THREE actions or stages that a tele-handler operator undertakes during pre-use inspections?   |
| 14  | An operator has to travel a tele-handler on the public highway, for which the road traffic act applies. List SIX requirements that must be followed.   |
| 15  | State the purpose of the check valve(s) located on the boom cylinder rams.   |
| 16  | What problems and hazards can soft ground cause to a loaded forklift?  |
| 17  | Name TWO factors that determine the weight of a load.  |
| 18  | Using the Operator's Manual, state the figure for the tyre pressures.<br>Note: The Operator's Manual for the machine being used for the test MUST be available for reference by the candidate.                           |
| 19  | The operator has to use a new type of tele-handler that they are unfamiliar with. What do Regulations (i.e. PUWER 98) and other guidance require the operator to have?   |
| 20  | Using the Operator's Manual, state the cold-starting procedure for the machine.<br>Note: The Operator's Manual for the machine being used for the test MUST be available for reference by the candidate.                 |
| 21  | a) What is the minimum distance allowed near open trenches when travelling with a tele-handler and<br>b) explain why?  |
| 22  | The operator has been asked to drive the machine onto a transporter/trailer.<br>a) Who is responsible for the loading operations and<br>b) state FOUR actions to be considered by the operator before loading commences? |
| 23  | If checking the oil level using a dipstick, why must gloves be worn?   |
| 24  | Which part of the forklift is the load centre usually measured from?   |

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| 25  | List SIX typical subject areas that should be covered in a site induction.  |
| 26  | Why should a tele-handler be re-fuelled at the end of the day?  |
| 27  | Name SIX possible proximity hazards that may be encountered on site when travelling with a load.  |
| 28  | What are the possible outcomes of facing prosecution for not complying with legislation and regulations?  |
| 29  | Name THREE ways in which an operator can minimise their impact upon the environment whilst using the machine.   |
| 30  | Explain ALL visual checks that must be carried out on all types of quick-hitch attaching systems before use.  |
| 31  | Give FOUR reasons that may cause the tele-handler to tip over sideways.   |
| 32  | Where should the Operator's Manual be kept and why?   |
| 33  | As a lifting machine, the tele-handler must be thoroughly examined.<br>a) What is the purpose of the examination and<br>b) who would carry out the examination?               |
| 34  | What is the purpose of a roll or ROPS frame?  |
| 35  | According to regulations (such as Lifting Operations and Lifting Equipment Regulations (LOLER) 1998) name TWO requirements that must be carried out on any lifting operation. |
| 36  | What is the meaning of this hand signal (being demonstrated by the Tester)?   |

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| 37  | Why must the seat belt be worn, even with the cab door closed?  |
| 38  | What is the purpose of counterweight(s) on the machine?   |
| 39  | If the tele-handler is being travelled or working on the public highway, including adjacent pavement and verges, the Road Traffic Act applies.<br>a) What type of licence and which classes should the operator hold and<br>b) what is the minimum age allowed? |
| 40  | Before picking up a load, why should the forks be equally spaced or distanced on the carriage?  |
| 41  | When working in a confined area or space, name THREE dangers that can be present.   |
| 42  | If a load is being lifted whilst the telehandler is on a slope and facing downhill, what effect could this have on the machine?   |
| 43  | What does the Health and Safety at Work Act require employers to do with regards specifically to plant?   |
| 44  | Before loading an uncoupled trailer, what THREE precautions must be taken?  |
| 45  | When parking the machine at the end of the shift, name THREE places where the machine should NOT be parked.   |
| 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  | Give THREE reasons why it is important that a tele-handler is not leaning sideways before attempting to lift or place a load.   |
| 48  | If the load centre of the load is longer (increased) than stipulated for the model of tele-handler, what effect does it have on the lifting capacity of the machine?  |

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| 49  | What is the main purpose of the Rated Capacity Indicator (RCI) or Load Moment Indicator (LMI)?  |
| 50  | When working in a confined area or space:<br>a) what danger can be present with regards to the counterweight of the machine,<br>b) when should measures be taken and<br>c) what measures should be implemented? |
| 51  | If placing a variety of loads onto a rigid, flatbed transporter, where should the heaviest loads be placed?   |
| 52  | When placing onto or lifting a load from a loading out tower:<br>a) why must the tele-handler's handbrake be on and the transmission in neutral and<br>b) what would the consequences be if this was not done?  |

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| 53  | What THREE main duties of the Health and Safety at Work Act must employees follow?   |
| 54  | An operator has been asked to transport a load along the public highway from one site to another, for which The Road Traffic Act applies. What needs to be taken into account regarding the law? |
| 55  | On a semi-automatic quick-hitch bucket attaching system:<br>a) what is the purpose of the safety pin and<br>b) what checks MUST be made to the pin before use?                                   |
| 56  | Name THREE conditions that mirrors on the machine must be in.  |
| 57  | State FOUR checks that should be made to the forks.  |
| 58  | Why are forklift operators generally regarded as 'safety-critical' workers?  |
| 59  | Before leaving the cab for a rest break, after parking and switching off the machine, what final action must be carried out?   |
| 60  | How can a qualification or card benefit a plant operator?  |
| 61  | a) What is the purpose of a Method Statement and<br>b) what is required of the operator?   |
| 62  | Name FOUR ways that wet weather can affect tele-handler operations.  |
| 63  | Apart from the operator, who else may need to use the machine's Operator's Manual?   |

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| 64 | How can high wind speeds affect tele-handler operations? |
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| 65  | How is it possible that forklifts can still tip over, even when travelling on gentle gradients, are not overloaded and not being driven at excessive speed?   |
| 66  | What is the purpose of a risk assessment?   |
| 67  | a) What is meant by the load centre and<br>b) why must it be known for each lift?   |
| 68  | Before travelling with a physically large load, name FIVE factors that must be taken into account by the operator before moving.  |
| 69  | Name THREE ways that a plant operator can contribute in ensuring repeat business with the client or principal contractor.   |
| 70  | What would happen if the steering mode of 'crab steer' is selected and the steering wheel rotated clockwise whilst travelling?  |
| 71  | Describe ONE physical method of checking that the attachment is fully secured to the coupler prior to work.   |
| 72  | Using the lifting capacity diagram for A17:<br>a) what is the maximum lifting capacity at maximum height,<br>b) what is the lifting capacity with the boom angle at 45 degrees and a boom extension of 2.5 metres and<br>c) what is the farthest distance (measured from the front tyres) available to place a 1.3 tonnes load at a height of 4 metres? |