

Piling Rig

Tripod

A30

Technical Test – Theory

Roles and responsibilities	1. What is the definition of, or how can a hazard be described?
	A
	2. What is the purpose of a risk assessment?
	A
	3. List SIX typical subject areas that should be covered in a site induction.
	A
	4. What THREE main duties of The Health and Safety at Work Act must employees follow?
	A
	5. What does The Health and Safety at Work Act require employers to do with regards specifically to plant?
	A
	6. a) What is the purpose of a Method Statement and b) what is required of the operator?
	A
	7. Name FOUR different types or levels of sanctions that can be applied (by employers and judicial bodies) to plant operators who do not comply with, or follow legislation and regulations?
	A
	8. Rig operators can be regarded as 'safety-critical' workers. What does this mean?
	A

continued...

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Roles and responsibilities continued	9. Name THREE ways in which an operator can minimise their impact upon the environment whilst using the rig.
	A
	10. In what situation does a hard hat NOT need to be worn when operating a piling rig?
	A
	11. The operator has to use a new model of rig that they are unfamiliar with. What do Regulations (i.e. LOLER 98) and other guidance require the operator to have?
	A
	12. What are the possible outcomes if being prosecuted for not complying with legislation and regulations?
	A
	13. Give ONE example of where The Work at Height Regulations 1995 may apply to tripod operations.
	A
Preparing for work	14. How can a qualification or card benefit a rig operator?
	A
	15. Name THREE ways that a rig operator can contribute in ensuring repeat business with the client or main contractor.
	A
	16. Where should the User's Manual be kept and why?
	A
	17. What are the THREE actions or stages that a rig operator undertakes during pre-use inspections?
	A
	For question 18 the User's Manual for the rig being used for the test MUST be available for reference by the candidate
	18. Using the User's Manual, state the cold-starting procedure for the IC engine.
	A

continued...

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Preparing for work continued	19. When a tripod rig has been assembled and configured for work: a) what must be carried out before work starts and b) by whom?
	A
	20. If checking the oil level using a dipstick, why must gloves be worn?
	A
	21. Name THREE ways that the winch may be driven.
	A
	22. Where would you find the dolly on a percussive driven hammer?
	A
	23. a) In what sort of environments are tripod rigs normally used and b) why?
	A
Setting up for work	24. Apart from the operator, who else may need to use the User's Manual?
	A
	25. During work, the engine starts to overheat. Explain the danger if someone tries to remove the radiator or expansion tank cap.
	A
	26. What particular and specific hazards can affect the stability of the rig when working on old industrial (Brownfield) sites?
	A
Setting up for work	27. What checks and procedures need to be made before a 'permit to dig' can be issued?
	A
	28. If setting up to work in a pedestrianised area, what factors should be taken into account?
	A
Setting up for work	29. a) What is the recommended minimum distance to be kept away from overhead power lines mounted on wooden pylons when setting up the rig and b) explain why a distance should be kept.
	A

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Working tasks	30. What is meant by 'toeing in' when referring to the piling activity?
	A
	31. Name TWO purposes of the driving shoe fitted to the tip of the pile or driving tube.
	A
	32. What is meant by the term 'refusal'?
	A
	33. What is meant by the term 'raking angle'?
	A
	34. What is a 'driven cast in-situ' pile?
	A
	35. During the piling operation, part of the task cannot be carried out as detailed in the lift plan. a) What initially must happen to the lifting operation and b) who authorises any changes?
	A
	36. How can the noise level of the hammering operation be reduced on: a) pre-cast types and b) cast in-situ types?
	A
Completing work	37. Why are driven piles generally used on contaminated sites?
	A
Shutdown	38. What is meant by 'open hole' piling?
	A
Completing work	39. Before leaving the rig for a rest break, after switching off the power unit, what final action must be carried out?
	A
Shutdown	40. Why should the diesel engine of the rig be re-fuelled at the end of the day?
	A