

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. Plant operators are generally regarded as 'safety-critical' workers. What does this mean?
	A

continued...

Roles and responsibilities continued	9. Name THREE ways in which an operator can minimise their impact upon the environment whilst using the machine.
	A
	10. In what situation does a hard hat NOT need to be worn when operating a grader?
	A
	11. The operator has to use a new type of grader that they are unfamiliar with. What do Regulations (i.e. PUWER 98) and other guidance require the operator to have?
	A
	12. What are the possible outcomes if being prosecuted (by judicial bodies) for not complying with legislation and regulations?
	A
Preparing for work	13. How can a qualification or card benefit a plant operator?
	A
	14. Name THREE ways that a plant operator can contribute in ensuring repeat business with the client or main contractor.
	A
	15. Where should the grader's Operator's Manual be kept and why?
	A
	16. If the operator has to top-up the hydraulic oil, state TWO precautions to ensure cleanliness of the system.
	A
For questions 17 and 18 the Operator's Manual for the machine being used for the test MUST be available for reference by the candidate	
17. Using the Operator's Manual, state the figure for the tyres' operating pressure.	
A	
18. Using the Operator's Manual, state the cold-starting procedure for the machine.	
A	

continued...

Preparing for work continued	19. What is the purpose of a roll or ROPS frame?
	A
	20. Explain the difference between a mouldboard side-shift and a circle side-shift.
	A
	21. If fitted, how are the scarifier tines in the block retained in position?
	A
	22. If fitted, what typical applications would a front dozer blade be used for?
	A
	23. How does front wheel drive help work efficiency?
	A
	24. If checking the oil level using a dipstick, why must gloves be worn?
	A
	25. If fitted, what would a front-mounted scarifier normally be used for?
	A
26. Apart from the operator, who else may need to use the machine's Operator's Manual?	
A	
27. During work, the engine starts to overheat. Explain the danger if someone tries to remove the radiator or expansion tank cap.	
A	
Travelling and manoeuvring	28. On an articulated grader, what precaution should be taken when turning left or right?
	A
	29. a) What should be avoided when travelling if the mouldboard is being carried in the banking position and b) why?
A	

continued...

Travelling and manoeuvring continued	30. How can a tight turning circle be achieved?
	A
	31. When MUST a banksman/signaller be used before moving a grader?
	A
	32. Why must the seat belt be worn, even with the cab door closed?
	A
Setting up for work	33. Give TWO reasons that may cause the grader to tip over sideways.
	A
	34. Cable avoidance tools (CATs) can detect a variety of buried services. What type of material do they have limitations in locating?
	A
	35. If setting up to grade in a confined area, name TWO things that should be taken into account before starting.
	A
	36. What particular and specific hazards can affect the stability of the machine when working on old industrial (Brownfield) sites?
	A
	37. If setting up to work near a pedestrianised area, state THREE factors that need to be taken into account.
	A
	38. Name TWO types of equipment used to ensure that grading levels, measurements and positions are to the required specification.
	A
39. Describe the procedure to be followed if the blade attachment has to be removed.	
A	
40. What THREE things should be checked out before carrying out embankment work?	
A	

continued...

Working tasks	41. Before manually changing the blade, why should the blade be positioned resting on the ground before removing the final pin?
	A
	42. a) What is the recommended minimum distance to be kept away from overhead power lines mounted on wooden poles when setting up the machine and b) explain why a distance should be kept.
	A
	43. If a trench has a depth of 2.0 metres: a) what is the minimum distance to maintain from the edge of the trench and b) explain why.
	A
	44. If a yellow coloured marker tape is unearthed during grading, which two types of services could this indicate?
	A
	45. What is the nearest distance allowed to gas pipes when grading with the machine?
	A
	46. What is the meaning of this hand signal (being demonstrated by the tester)?
	A
	47. Describe THREE reasons for using the crab steer mode.
	A
	48. If operating the machine on a ‘formation’ trim, name THREE possible hazards.
	A
	49. How can tyre marks be avoided when finishing a surface?
	A
50. Why would a fast working speed be selected if spreading light materials?	
A	
51. On graders fitted with leaning wheels, how can the effect of side-thrust acting on the front be counteracted when a large volume of material is being side-cast?	
A	

continued...

Working tasks continued	52. What problem may occur if the wearing plates on the blade are at the maximum wear limit?
	A
	53. What does float control of the blade allow?
	A
Completing work	54. Before leaving the cab for a rest break, after parking and switching off the machine, what final action must be carried out?
	A
Shutdown	55. When parking the machine at the end of the shift, name THREE places where the machine should NOT be parked.
	A
	56. 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.
	A
	57. Many graders 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?
	A
	58. 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?
A	
	59. Why should a grader be re-fuelled at the end of the day?
	A