

NOS PSSPO102 Move loads using and lifting and handling equipment

Unit PSSPO102.3 Lift and position loads by crane (SQA Unit Code-H77R 04)

Performance Criteria

You must be able to

Lift and position loads by crane

1. assess the characteristics of the load to be lifted, identifying where special attachments are required, and ensuring that these are fitted before beginning the lift
2. use the correct type of crane, confirming that it has the capacity outreach, for the lifting operation required in advance of beginning the lift
3. position and set up the crane, and check and ensure that all operating functions are working before beginning the lift
4. establish contact and agree the protocol for the lift with all others involved in the operation using appropriate methods and prior to beginning the lifting operation
5. operate the crane efficiently and safely, taking due care to avoid contact with the load's unit/vessel's superstructure and port infrastructure
6. follow the agreed lifting plan
7. carry out close-down procedures upon completion of the lifting operation, in line with the organisation's requirements
8. address and report immediately faults or difficulties with the lifting operations or the materials used

Knowledge and understanding

You need to know and understand

1. the legal responsibilities for maintaining own and others' health and safety in your workplace
2. the requirements placed upon the individual and the organisation by current legislation, relevant to handling loads using lifting equipment
3. current industry guidance relevant to lifting equipment operations own organisation's policies, procedures and working practices relevant to operations using lifting equipment
5. the operating procedures, capabilities (including manoeuvring characteristics) and limitations of the types of lifting equipment within own area of responsibility
6. the pre-start maintenance requirements, including the correct procedure for checking lubricants and other fluids of lifting equipment within own area of responsibility
7. why it is important to report any faults and defects prior to commencing operations
8. the organisational procedures for reporting and documenting equipment faults, tests and checks
9. the implications of operating equipment that is unsafe or that has been serviced poorly
10. the types of load that may be lifted by each type of lifting equipment within own area of responsibility
11. the factors that can affect the stability and security of loads when they are being transferred, and how these can be affected by environmental conditions

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12. the methods of slinging and un-slinging loads, including angles of operations and what constitutes a safe working load
13. the capabilities, including capacity and strength of the principal types of slinging and lashing materials, and the implications of using defective or faulty materials
14. how to interpret organisation coding systems relating to lifting equipment, and how to interpret the information found on load labels and documentation
15. the signalling procedures and techniques used in the organisation
16. the speed limits specified for equipment operating within the port environment, the importance of operating within these limits, and of maximising the safety of pedestrians and other drivers
17. the limits of own responsibility and to whom to report if these are exceeded
18. the principal characteristics of the main types of cargo, and the associated **hazards**

Glossary

Hazard: something with potential to cause harm

Risk: a risk is the likelihood of the hazard's potential being realised