

Unit PSSPO101-8 Operate equipment for moving bulk liquids(SQA Unit Code H77M 04)

Performance Criteria

You must be able to

Operate equipment for moving bulk liquids

1. prepare the quay area according to own organisation's procedures ensuring that all obstructions and **hazards** are removed, relevant safety systems are available and operating properly and that where necessary, that the area is cordoned off with warning signs in place
2. establish the exact nature of the cargo to be handled, identify and assess all potential hazards, ensuring that all appropriate precautions are in place, including identifying the correct safety and emergency shutdown procedures
3. identify the equipment required and confirm that it is available and operating properly before handling the cargo
4. confirm the destination of the cargo and that there is adequate storage capacity available for the cargo expected, before beginning handling operations
5. establish and maintain clear contact with all others involved in the operation, agreeing the protocol for transferring the cargo prior to beginning handling operations connect pipelines properly, assembling flanges and gaskets, and lining up valves
6. confirm that all connections are leak-free by conducting pressure tests before moving the cargo
7. monitor the pipelines for leaks at all times
8. identify and address any difficulties in accordance with operational procedures
9. confirm that upon completion of the transfer, that it is safe to disconnect pipelines by checking back pressures
10. ensure that pipelines are cleaned and disconnected
11. store disconnected pipelines, hoses and gantries in good condition and in accordance with operational procedures
12. deal with any residues and spillages
13. ensure quay areas are left clean, tidy and free of obstructions
14. maintain up to date records, where required, of cargo transferred

Knowledge and understanding

You need to know and understand

1. the legal responsibilities for maintaining own and others' health and safety in the workplace
2. the requirements placed upon the individual and the organisation by current legislation, **relevant to cargo handling** in own area of operations
3. current industry guidance relevant to cargo handling in own area of operations
4. own organisation's policies, procedures and working practices **relevant to cargo handling**

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5. the operating procedures, capabilities (including manoeuvring characteristics) and limitations of the types of equipment within own area of operations
6. why it is important to report any faults/defects prior to commencing operations
7. the organisational procedures for reporting and documenting equipment faults, tests and checks
8. the implications of operating equipment that is unsafe or that has been serviced poorly
9. the principal types of bulk liquid handling equipment, their operating capabilities and specific characteristics
10. the implications of back pressure and its significance in relation to pipeline systems
11. procedures for flushing and pigging lines
12. the principal characteristics of the main types of liquid bulk cargo, including their nature and weight and whether they are hazardous or non-hazardous
13. organisational policies and procedures relevant to liquid bulk operations
14. organisational procedures relating to meeting legislative requirements regarding operating equipment for moving bulk liquids, and are aware of the relevant sections of this legislation
15. the physical layout of the port area, relevant to your area of operations
16. the organisation's high level alarm systems and their impact on operations
17. the organisation's emergency shutdown arrangements, and own role within these

Scope

Requirements relevant to cargo handling should include: dry and liquid bulk, cargo transport unit, roll-on/roll-off

Glossary

Hazard: something with potential to cause harm

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