

Unit PSSPO105.3 Fuel vessels(SQA Unit Code-H786 04)

Performance Criteria

You must be able to

Fuel vessels

1. prepare the quay area ensuring that all obstructions and **hazards** are removed, and that relevant safety systems are available and operating properly
2. cordon off the area and place warning signs, establishing and maintaining a safety boundary in line with best practice and regulatory requirements
3. deploy spill prevention systems
4. ensure that all equipment required for an emergency response is immediately available
5. establish and maintain clear contact with all others involved in the operation, agreeing the protocol for fuelling the vessel prior to beginning operations
6. identify the equipment required and confirm that it is operating properly before beginning the fuelling operation
7. connect pipelines properly, assembling flanges and gaskets, and lining up valves, and where possible, position drip trays and bung scuppers
8. confirm that all connections are leak free before fuelling commences, and monitor the pipelines for leaks at all times
9. ensure vessels are fuelled safely
10. calculate the amount and positioning of the fuel to be transferred to the vessel
11. upon completion of fuelling, confirm that it is safe to disconnect pipelines
12. disconnect and clean pipelines only when it is safe to do so
13. deal with any residues and spillages
14. ensure quay sides are left clean, tidy and free of obstructions
15. maintain accurate and up to date records of fuel transferred, where required

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 supporting vessel operations
3. current industry guidance relevant to supporting vessel operations
4. own organisation's policies, procedures and working practices relevant to supporting vessel operations
5. how tides and different types of adverse weather conditions can impact upon vessel movements within a port area
6. workplace procedures for dealing with incidents and emergency situations
7. the purpose and limitations of personal protective equipment (PPE) and life-saving gear for use on or near the water
8. how to apply the principal methods of communicating with vessels

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9. the principal types of fuel handling equipment, including pipelines and valves, their operating capabilities and specific characteristics
10. the implications of back pressure and its significance in relation to pipeline systems
11. the potential **hazards** and related safety precautions applicable during fuelling, including those relating to tank layouts, valve and pipeline systems, the physical properties of fuels and the principal causes of explosions when dealing with fuels
12. the basic environmental protection measures to be applied during fuelling operations
13. the location of, and how to use, emergency and safety equipment relevant to fuelling vessels, including procedures for addressing oil-based fires
14. the physical layout of your port area, relevant to own area of operations

Scope

1. **Personal Protective Equipment (PPE):** includes but is not limited to high visibility vests, hard hats, protective clothing, eye/hearing/respiratory protection, gloves
2. **Organisation's policies, procedures and working practices relevant to supporting vessel operation to include:** those for dealing with emergencies when berthing vessels and positioning access equipment and fuelling vessels

Glossary

1. **Hazard:** a hazard is something with potential to cause harm
2. **Risk:** a risk is the likelihood of the hazard's potential being realised