Unit 6 Contribute To Helicopter Refuelling Operations

This unit has two elements and is about your competence in the refuelling operation.

6.1 Prepare For Refuelling

6.2 Refuel The Helicopter

During this work you must take account of the relevant worksite operational requirements, procedures and safe working practices AS THEY APPLY TO YOU.

Unit Scope

The terms used in the scope relate directly to those shown in bold in the Performance Statements.

- **Refuelling Systems** must include filter, location, pumps, refuelling location
- **Refuelling Requirements** must include quantity, gravity, pressure
- **Operational Requirements** must include weather, rotor hazards
- **Procedures** may include helicopter bonding and re-fuelling, re-fuelling systems and equipment, aircraft requirements, shutdown sequence, equipment storage, refuelling hose, hose end bonding lead, main bonding lead, data collection and processing, safe working practices, fuel sampling and quality, testing
- **Manned equipment** must include rescue and fire-fighting, chocks, baggage handling equipment
- **Safe Systems of Work** must include processes or systems that incorporate Hazard Identification, Risk Assessment, Permit to Work and any other associated systems
- **Monitoring** must include differential pressures, delivery pressure, quantity
- **Corrective action** may include spillage, fire, quantity
- **Aircraft Requirements** must include gravity, pressure, quantity
- **Stowed equipment** must include re-fuelling package i.e. nozzle, hose, bonding leads, fuel caps, fuel samples, sampling equipment
- **Data** must include quantity, delivery meter, totaliser meter, differential pressure gauges, fuel pressure gauge, dipstick reading

Unit-wide Knowledge

- Approved procedures and practices in the context of the operations, the work activity and the workplace environment (organisational, regulatory, emergency, operational)
- Responsibilities under the Health and Safety Statutory Requirements
- How to use ‘Safe Systems of Work’ processes to identify hazards and mitigate or reduce risks to as low as reasonably practicable (ALARP)
Element 6.1 Prepare For Refuelling

Performance Statements

In achieving this unit you must have:

1. confirmed to the HLO, that refuelling systems and equipment are serviceable
2. confirmed to the HLO that the refuelling requirements can be met safely
3. conducted quality checks, fuel sampling and other work, in a safe manner and with regard to operational requirements and procedures
4. received aircraft refuelling requirements
5. confirmed that Emergency Response equipment is available and appropriately manned
6. recorded data accurately and at appropriate times and frequencies, and forwarded this to the HLO
7. worked safely in accordance with operational requirements and associated Safe Systems of Work

Knowledge and Understanding

You must know and understand:

1. factors affecting the decision not to off-load passengers prior to refuelling (type of refuelling system, prevailing weather conditions)
2. fuel quality checks and how to assist in carrying them out
3. appropriate safety content of operational policies, procedures, instructions, codes of practice, standards
Element 6.2        Refuel The Helicopter

Performance Statements

In achieving this unit you must have:

1. bonded the helicopter and made safe for re-fuelling, in accordance with aircraft requirements
2. carried out and monitored re-fuelling operations
3. taken corrective action when required by procedures or aircraft requirements
4. followed the correct procedure and sequence when shutting down the re-fuelling operation
5. stowed equipment in the specified way
6. recorded data accurately and at appropriate times and frequencies, and forward this to the HLO
7. confirmed to the HLO, that the re-fuelling system and equipment are serviceable
8. worked safely in accordance with operational requirements and associated Safe Systems of Work

Knowledge and Understanding

You must know and understand:

1. stages in the sequence of engine shutdown
2. procedures for bonding and using re-fuelling equipment
3. methods for monitoring the operation and taking corrective actions
4. aircraft re-fuelling requirements
5. fuel quality checks, and how to assist in carrying them out
6. safe working practices
7. appropriate safety content of operational policies, procedures, instructions, codes of practice, standards
8. where and how to stow equipment after use
9. fuel system shutdown sequence
10. equipment inspection requirements (fuel system)
11. data to be recorded and follow up required
12. methods of recording data
13. servicing requirements of re-fuelling system and equipment
14. fuel sample collection/analysis