

COGODR9

Contribute to helicopter refuelling operations



Overview

This unit is about the preparation of tubulars, the gathering and checking of equipment and the securing of loads. The unit also covers operation of winches. This unit deals with the following:

- 1 Prepare For Refuelling
- 2 Refuel the Helicopter

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Performance criteria

- You must be able to:*
- P1 confirmed to the HLO, that **refuelling systems** and equipment are serviceable
 - P2 confirmed to the HLO that the **refuelling requirements** can be met safely
 - P3 conducted quality checks, fuel sampling and other work, in a safe manner and with regard to **operational requirements** and procedures
 - P4 received aircraft refuelling requirements
 - P5 confirmed that Emergency Response equipment is available and appropriately manned
 - P6 recorded data accurately and at appropriate times and frequencies, and forwarded this to the HLO
 - P7 bonded the helicopter and made safe for refuelling, in accordance with aircraft requirements
 - P8 carried out and **monitored** refuelling operations
 - P9 taken **corrective action** when required by procedures or aircraft requirement
 - P10 followed the correct procedure and sequence when shutting down the refuelling operation
 - P11 **stowed equipment** in the specified way
 - P12 recorded **data** accurately and at appropriate times and frequencies, and forward this to the HLO
 - P13 confirmed to the HLO, that the refuelling system and equipment are serviceable
 - P14 worked safely in accordance with operational requirements and associated **Safe Systems of Work**

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Knowledge and understanding

You need to know and understand:

- K1 the factors affecting the decision not to off-load passengers prior to refuelling (e.g. type of refuelling system, prevailing weather conditions)
- K2 the fuel quality checks and how to assist in carrying them out
- K3 stages in the sequence of engine shutdown
- K4 procedures for bonding and using refuelling equipment
- K5 methods for monitoring the operation and taking corrective actions
- K6 aircraft refuelling requirements
- K7 fuel quality checks, and how to assist in carrying them out
- K8 safe working practices
- K9 appropriate safety content of operational policies, procedures, instructions, codes of practice, standards
- K10 where and how to stow equipment after use
- K11 fuel system shutdown sequence
- K12 equipment inspection requirements (fuel system)
- K13 data to be recorded and follow up required
- K14 methods of recording data
- K15 servicing requirements of refuelling system and equipment
- K16 fuel sample collection/analysis

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Additional Information

Scope/range

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

- 1 How to use 'Safe Systems of Work' processes to identify hazards and mitigate or reduce risks to as low as reasonably practicable (ALARP)
- 2 How to select, use and care for PPE (to include sight/hearing protection, coveralls, coveralls, gloves, footwear, hard hats, respirators)
- 3 The implications of statutory (e.g. HASAWA and COSHH) and organisational requirements
- 4 How to interpret operational requirements (e.g. relevant policies, procedures, instructions, codes of practice, standards, schedules)

The following terms in **bold** relate directly to those shown in **bold** in the Performance Statements.

- 1 **Refuelling Systems** must include filter, location, pumps, refuelling location
- 2 **Refuelling Requirements** must include quantity, gravity, pressure
- 3 **Operational Requirements** must include weather, rotor hazards
- 4 **Procedures** may include helicopter bonding and refuelling, refuelling 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
- 5 **Corrective action** may include spillage, fire, quantity
- 6 **Aircraft Requirements** must include gravity, pressure, quantity
- 7 **Monitoring** must include differential pressures, delivery pressure, quantity
- 8 **Equipment Storage** must include refuelling package i.e. nozzle, hose, bonding leads, fuel caps, fuel samples, sampling equipment
- 9 **Data** must include quantity, delivery meter, totaliser meter, differential pressure gauges, fuel pressure gauge, dipstick reading
- 10 **Safe Systems of Work** must include processes or systems that incorporate Hazard Identification, Risk Assessment, Permit to Work and any other associated systems.

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