
Overview

This unit is about the preparation and operation of work boats. You must possess the appropriate certification or approvals to operate the class of boat used during assessment of this unit. You must also work in a safe and effective way at all times.

The elements are:

1. Prepare and maintain the operational condition of work boats

This element covers preparing and maintaining work boats for use. You must carry out the necessary checks and maintenance, and ensure that the work boat is safe and ready for use. In addition, you must recognise and deal with any faults or problems that arise prior to operation of the work boat.

2. Operate work boats

For this you must operate work boats in a safe and effective way for activities such as maintenance, inspection and transportation. All manoeuvres must be conducted safely, in accordance with manufacturers and organisational requirements, and without causing damage to the boat. You must take into account factors such as weather conditions, water conditions and hazards during the operation of the boat. In addition, you must maintain clear communication with crew members, monitor environmental conditions, and respond to any emergencies or unforeseen circumstances in an appropriate way.

The unit is relevant to all rivers, coasts and waterways workers who use work boats.

You must operate water-borne plant in a way which minimises any impact on the natural environment and enhances its nature, conservation and recreational value. You must also take into account the impact which work boats will have on the water environment as a whole. For example, the impact of work boats on the recreational use of the water environment and natural habitats.

Performance criteria

You must be able to:

Prepare and maintain the operational condition of work boats

- P1 carry out **checks and maintenance procedures** correctly, in accordance with statutory, manufacturers and organisational requirements
- P2 ensure **equipment** for use during the operation of the work boat is safe, in good working order and accessible
- P3 identify any faults in the operational condition of the work boat accurately, and report them to the appropriate person
- P4 ensure where appropriate, you rectify faults in the operational condition of the work boat safely and correctly
- P5 maintain health, safety and environmental good practice during your work according to relevant legislation and organisational requirements
- P6 ensure problems and conditions which are outside your responsibility are identified and referred promptly to the appropriate person
- P7 ensure your records are accurate, legible and complete

You must be able to:

Operate work boats

- P8 ensure boat manoeuvres are conducted safely, and in accordance with statutory and organisational requirements
- P9 operate the work boat controls in accordance with manufacturer's instructions, the nature of the **operations** and with regard to the prevailing **environmental conditions**, wildlife habitats and other water users
- P10 ensure boat manoeuvres are carried out without damage to the work boat and within the necessary timescales
- P11 recognise any hazards and obstacles, and take the appropriate action to minimise the risk during work boat manoeuvres
- P12 report any difficulties in carrying out **operations** promptly to the relevant person
- P13 ensure your **communications** with crew members and others are accurate and clear at all times, and adhere to organisational requirements
- P14 respond to changes in **environmental conditions** appropriately and in accordance with organisational requirements
- P15 maintain health, safety and environmental good practice during your work according to relevant legislation and organisational requirements
- P16 identify the need for emergency procedures accurately and take the appropriate prompt actions

Knowledge and understanding

You need to know and understand:

Prepare and maintain the operational condition of work boats

- K1 the required pre-start checks, routine checks and maintenance procedures
- K2 the manufacturers instructions for engine and equipment maintenance, and specifications of the work boat
- K3 the types of faults which may occur, including: engine faults, damage to the vessel and missing equipment, and the appropriate action in relation to these faults
- K4 the limits of your responsibility for rectifying faults and other problems
- K5 the procedures for reporting faults
- K6 the reasons for reporting faults
- K7 how to safely handle and store fuel and lubricants
- K8 the types of problems which may be encountered and how these should be dealt with
- K9 the relevant legislation and organisational requirements associated with the use of work boats
- K10 the health and safety requirements in relation to the operation and use of work boats
- K11 the requirements for record keeping
- K12 how to maintain environmental good practice during work activities
- K13 the recreational and economic use of the water environment and how such use relates to work activities

You need to know and understand:

Operate work boats

- K14 the safe and correct methods for handling and using work boats
- K15 the operational limitations of the work boat
- K16 the types of operations which are carried out using work boats
- K17 the ways in which weather and water conditions must be taken into account during operations
- K18 the types of hazards which may occur, including: floating debris, submerged obstacles and fixed structures
- K19 how to respond to hazards during work boat manoeuvres
- K20 the potential damage which may occur during operations and the correct action to take
- K21 the difficulties which may occur and to whom these should be reported
- K22 the limits of your responsibility in relation to the operation of work boats
- K23 the types of emergencies which can occur, including: fire, sinking, engine failure, collision, person overboard, leak of flammable or hazardous substances
- K24 the correct methods for implementing emergency procedures
- K25 the implications for your work of relevant legislation and organisational

LANEC15 - SQA Unit Code F8JJ 04

Prepare, maintain and operate work boats

requirements

- K26 the procedures for communicating with crew members and others
- K27 the health and safety requirements in relation to the use of work boats
- K28 the recreational and economic use of the water environment and how such use relates to work activities
- K29 the environmental considerations which must be taken into account during operations
- K30 how to maintain environmental good practice during work activities

Additional Information

Scope/range related to performance criteria

Prepare and maintain the operational condition of work boats

1. **checks and maintenance procedures:**
 - 1.1. safety checks
 - 1.2. engine checks
 - 1.3. engine maintenance
 - 1.4. condition of vessel
2. **equipment:**
 - 2.1. safety equipment
 - 2.2. operational equipment

Operate work boats

3. **operations:**
 - 3.1. maintenance
 - 3.2. inspection
 - 3.3. transportation
4. **environmental conditions:**
 - 4.1. prevailing weather
 - 4.2. water flow
 - 4.3. water depth
 - 4.4. tidal information
5. **communications:**
 - 5.1. verbal
 - 5.2. written
 - 5.3. sound

LANEC15 - SQA Unit Code F8JJ 04

Prepare, maintain and operate work boats

Developed by LANTRA

Version number 1

Date approved March 2008

Indicative review date March 2010

Validity Current

Status Original

Originating organisation LANTRA

Original URN NEC15v2

Relevant occupations Environmental conservation; General; Conservation Associate Professionals

Suite Environmental conservation

Key words checks, maintenance procedures, boats
