
Overview

This standard covers operating and maintaining water level systems. It is applicable to any controlled water system where a level or flow control regime is in operation.

You are required to operate a variety of machinery and equipment to maintain water level systems.

The standard is designed for employees who are involved in maintaining water level systems relevant to rivers, coasts and waterways.

You must carry out your work in a way which will minimise any impact on the natural environment and enhance its nature, conservation and recreational value.

Performance criteria

You must be able to:

- P1 assess the risks associated with the site and the proposed works
- P2 operate and maintain water level systems according to instructions and water level conditions
- P3 operate equipment safely and in accordance with flow control procedures
- P4 where equipment failure occurs use the appropriate methods to rectify the problem and report to the appropriate person
- P5 remove any obstructions and debris, or refer them to the appropriate person for further action
- P6 communicate effectively with others throughout your work
- P7 monitor water levels using the correct methods
- P8 recognise and respond to the need to alter water level systems in accordance with organisational requirements
- P9 recognise opportunities to enhance wildlife habitats through modifications to work, and report these opportunities to the appropriate authority
- P10 maintain environmental and health and safety legislation and codes of practice
- P11 wear personal protective equipment in accordance with manufacturers' recommendations and organisational requirements
- P12 maintain records as appropriate

Knowledge and understanding

You need to know and understand:

- K1 how to interpret risk assessments
- K2 the instructions for operating and maintaining water level systems
- K3 the purpose and function of the water level system
- K4 how to select, prepare and use tools, equipment and materials relevant to the agreed specifications
- K5 the types of equipment failure which may occur and how to recognise and deal with such faults
- K6 the limits of responsibility in relation to dealing with equipment failure
- K7 the types of obstructions which may occur and how to recognise and deal with them safely
- K8 how to monitor and estimate water levels
- K9 the procedures for communicating and reporting information
- K10 the relevant legislation and organisational requirements associated with water level systems
- K11 the environmental and health and safety legislation and codes of practice relevant to operating and maintain water level systems
- K12 the environmental considerations which must be taken into account
- K13 the opportunities which may arise to enhance wildlife habitats and to whom these should be reported
- K14 how to maintain environmental good practice during work activities
- K15 the appropriate use of personal and protective equipment

Glossary

Water level systems:

- flap valve
- pumping station
- locks and weirs
- gates
- ground paddles
- stop logs

Equipment:

- mechanical
- manual
- electrical
- hydraulic

Instructions:

- verbal
- written

Level conditions:

- high
- normal
- low

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