

LANFIM12

Supervise electrofishing operations



Overview

This standard is about supervising electrofishing operations so that the objectives of the fishing activity are safely met. It includes being able to observe all aspects of the electrofishing activity and the provision of advice and guidance to help those involved with its implementation.

This standard requires that variations from objectives are effectively dealt with in respect of the expected numbers of fish, the changes in water conditions and the effectiveness of equipment. This standard also requires that the condition of fish is maintained during capture, storage, processing (data collection) and release.

This standard requires the maintenance of:

1. electrofishing equipment
2. generator and fuel
3. nets
4. boat(s) and trailers
5. personal protective equipment
6. communication equipment

This standard requires that you ensure work is completed safely in line with legal health and safety requirements and that you ensure work maintains bio-security and minimises environmental disturbance at all times.

The legislation controlling the application of this standard will vary depending on the location of the fishery within England, Wales, Northern Ireland or Scotland.

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Performance criteria

- You must be able to:*
- P1 supervise electrofishing operations to achieve planned fishing objectives within given area
 - P2 observe and rectify variations from planned fishing objectives
 - P3 adjust electrofishing activities to take account of changes in environmental conditions
 - P4 ensure the efficient processing of fish
 - P5 maintain the condition, health and wellbeing of captured fish throughout electrofishing activities
 - P6 ensure that equipment is maintained into a serviceable and safe operating condition throughout electrofishing operations
 - P7 maintain accurate electrofishing records
 - P8 maintain equipment into a serviceable condition throughout the process
 - P9 maintain effective communication with team throughout fishing activity
 - P10 implement emergency procedures in the event of an accident

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Knowledge and understanding

You need to know and understand:

- K1 the health and safety requirements associated with electrofishing
- K2 the advantages and disadvantages of electrofishing
- K3 how changes in conditions can affect electrofishing
- K4 errors and variations that can impact on electrofishing
- K5 how to minimise the potential damage caused to fish through the correct use of equipment
- K6 the principles of electrofishing
- K7 how to effectively fish different types of water body (still water and running water)
- K8 how different fish species react during electrofishing
- K9 the limits of electrofishing
- K10 how morphology, water temperature, water conductivity and fish size can impact on electrofishing activities
- K11 how to modify fishing activities to take account of large numbers of fish, fish transfers, and changes in water conditions
- K12 data collection and recording requirements
- K13 how to recognise signs of stress in fish
- K14 how to prepare, use and dispose of anaesthetics
- K15 why anaesthetics are used in support of electrofishing activities
- K16 how to establish and maintain bio-security during electrofishing activities

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