

# LANFIM16

## Supervise the collection and analysis of fisheries data



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### Overview

This standard is about controlling the collection and analysis of data relating to the fisheries environment and the fish from within the fishery. It covers supervising the allocation of resources to support the collection of data and controlling the data collection processes. It includes analysing the data collected and reporting the outcomes to stakeholders.

This standard requires the supervision of people, equipment, material and time in order to sample and collect data relating to population size, population age structure, condition of fish, size of individual fish and age of individual fish.

This standard requires the supervision of activities that monitor the physical features, water quality and biological aspects (invertebrate monitoring).

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 the implementation of fisheries monitoring activities, taking account of prevailing environmental conditions
- P2 supervise the collection and analysis of samples and data from both live and dead fish
- P3 establish and maintain fisheries monitoring activities within known resource constraints
- P4 ensure that fisheries monitoring activities comply with legal requirements
- P5 monitor emergencies identified on the fishery
- P6 analyse data to determine the characteristics of the fishery
- P7 maintain communication with relevant stakeholders to facilitate effective monitoring
- P8 maintain accurate management records

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### Knowledge and understanding

*You need to know and understand:*

- K1 how to effectively monitor physical, biological and chemical conditions on a fishery
- K2 the importance of monitoring activities to the management of a fishery
- K3 how to modify monitoring activities to take account of changes to environmental conditions
- K4 the physiology of fish and their interactions with their environment
- K5 how to collect data and biological samples from both live and dead fish
- K6 fish anatomy
- K7 the processes used to age fish
- K8 how to recognise common diseases and health problems in fish
- K9 the resources available to support monitoring activities
- K10 the importance of collecting data in response to identified emergencies (habitat deterioration, predator actions, disease and human influences)
- K11 how to sample in response to emergencies
- K12 acoustic survey techniques
- K13 relevant SEN standards

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**Developed by** LANTRA

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**Version number** 1

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**Date approved** April 2010

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**Indicative review date** April 2012

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**Validity** Current

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**Status** Original

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**Originating organisation** LANTRA

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**Original URN** NFIM16

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**Relevant occupations** Agriculture, Horticulture and Animal Car; Skilled Agricultural Trades

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**Suite** Fisheries Management

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**Key words** fisheries, data, collection, supervising