

# LANFIM18

## Prepare to and catch fish from a fishery



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### Overview

This standard is about collating, analysing and presenting fisheries population data.

This standard requires that you are able to analyse length/frequency data, length at age data, catch/unit effort or other abundance data and species abundance/year class data.

This standard also requires the following characteristics are determined for fish populations:

1. condition factor
2. population structure
3. abnormalities in population growth

This standard requires that you carry out work safely in line with health and safety requirements and that you work to maintain bio-security and minimise 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 obtain reference information and data
- P2 complete checks to ensure the validity of data
- P3 analyse data using appropriate techniques to determine the characteristics of a fisheries population
- P4 process data to identify trends in population characteristics
- P5 compare results with expected norms for the fish population
- P6 present data in a form appropriate to its resolution
- P7 report findings in a form accessible to stakeholders

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### Knowledge and understanding

*You need to know and understand:*

- K1 how to prepare data for analysis
- K2 how to present data (graphs, tables and charts)
- K3 condition factor and how it is determined
- K4 the expected characteristics and structure of the fish population being studied
- K5 how to obtain reference data/information in respect of different fish species
- K6 basic statistical analysis
- K7 how natural variations can impact on data
- K8 report writing
- K9 how to identify trends in data
- K10 the significance of trends in data analysis
- K11 units for presenting data
- K12 how to interpret and present geographic data

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**Originating organisation** LANTRA

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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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