

LANFIM24

Establish, monitor and maintain fish hatchery operations



Overview

This standard is about organising hatchery operations. It relates to organising the hatchery and maintaining all ongoing activities to effectively support the development of hatchery stock.

This standard is aimed at those who are involved in supervising fish hatchery activities on a regular basis e.g. hatchery managers. It can be applied to any fish farm.

To achieve it you must show that you are able to establish hatchery programmes and systems to support the planned production of healthy fish, from fish eggs, and effectively control fish hatchery production of healthy fish.

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Performance criteria

You must be able to:

Establish the hatchery production of fish

- P1 carry out work safely in line with health and safety requirements
- P2 organise the hatchery to provide a clean, safe and secure environment for fish
- P3 establish the environmental conditions required to support the development of healthy stock, and to meet projected production targets
- P4 establish regimes to effectively support planned hatchery production
- P5 develop procedures to deal with factors likely to disrupt hatchery activities
- P6 receive and assess hatchery stock and report on its quality
- P7 establish systems to effectively monitor conditions within the hatchery, and to maintain the security of hatchery stock

You must be able to:

Monitor and maintain fish hatchery production

- P8 monitor fish health and development against planned hatchery production
- P9 maintain the condition of the hatchery through the effective implementation of hygiene and cleaning regimes
- P10 maintain required development through the effective implementation of hatchery feeding regimes
- P11 modify production activities to take account of factors which disrupt fish production
- P12 maintain required stocking densities within holding units through the effective implementation of grading regimes
- P13 implement emergency procedures to deal with identified emergencies affecting the aquatic environment
- P14 maintain accurate records in respect of all hatchery activities and production

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Knowledge and understanding

You need to know and understand:

Monitor and maintain fish hatchery production

- K1 production activities and their effective implementation
- K2 the importance of achieving planned production
- K3 environmental conditions required by hatchery stock (eggs, juveniles)
- K4 common health problems associated with hatchery production
- K5 methods of monitoring production within hatcheries
- K6 the importance of implementing feeding regimes at the correct time and matched to the needs of the hatchery stock
- K7 codes of practice, and their application in the control of hatcheries
- K8 factors which are likely to disrupt production, and corrective actions
- K9 reasons for keeping hatchery records, and the importance of their accuracy
- K10 the development of hatchery stock, linking life stages to 'degree day' development
- K11 legal controls controlling the discharge from fish hatcheries

You need to know and understand:

Establish the hatchery production of fish

- K12 farm hatchery production characteristics
- K13 methods of determining production capacity for hatchery
- K14 optimum stocking levels for available holding facilities
- K15 animal welfare requirements associated with the transport and handling of hatchery stock
- K16 effective hatchery production procedures
- K17 the environmental and welfare requirements of hatchery stock and how these are provided for in the hatchery
- K18 the legal requirements which control the movement of eggs and fish
- K19 the importance of hygiene within the hatchery environment
- K20 how to assess the viability of hatchery stock
- K21 emergency procedures and their application

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Glossary

The definitions below should help you understand the standard:

Resources

Holding units, water supply, feed, finance, energy, time

Production activities

Feeding, hygiene, removing mortalities, health treatments

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