

LANH14

Monitor and maintain the provision of water to crops or plants



Overview

This standard covers monitoring and maintaining the provision of water to crops or plants, outdoors or in protected conditions. You will require knowledge of the principles of plant growth and development as well as plant health.

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

The standard is suitable for anyone who monitors and maintains the provision of water to crops or plants.

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Performance criteria

- You must be able to:*
- P1 assess the risks associated with the site and the required activity
 - P2 effectively monitor the growth and development of crops or plants in accordance with specifications
 - P3 inspect crop or plants and assess the need for the provision of water
 - P4 seek technical advice regarding suitable actions where necessary
 - P5 calculate the appropriate application rate to achieve the desired result
 - P6 monitor and evaluate the effectiveness of the application of water
 - P7 identify the need for adjustments to watering systems
 - P8 ensure watering systems are maintained in an effective condition and arrange repairs where appropriate
 - P9 ensure suitable levels of hygiene and biosecurity are maintained
 - P10 ensure work is carried out in a manner which minimises environmental damage
 - P11 carry out all work in accordance with relevant environmental and health and safety legislation, risk assessment requirements, codes of practice and company policies
 - P12 ensure appropriate records are completed as required by relevant legislation and the organisation

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Knowledge and understanding

You need to know and understand:

- K1 how to identify hazards and assess risks
- K2 how to interpret risk assessments
- K3 why it is important to check the growth and development of crops or plants in accordance with specifications
- K4 the stages of plant development
- K5 the requirements, advantages and disadvantages of different production systems for crops or plants
- K6 the principles of sustainable production
- K7 the ways of checking the requirement of the crop or plants for water
- K8 sources of technical advice regarding suitable actions
- K9 methods, systems and sources for supplying water to the crop or plants
- K10 use of technology to manage watering systems
- K11 how to establish that the supply of water is suitable
- K12 types and adjustments that can be made to the watering system
- K13 problems which may occur with the delivery of water to the crop or plants and how these should be resolved
- K14 the correct use of equipment for supplying water
- K15 the routine maintenance requirements of watering systems
- K16 the main advantages and disadvantages of the different watering systems
- K17 methods of maintaining hygiene and biosecurity and the reasons why it is important
- K18 your responsibilities under relevant environmental and health and safety legislation, codes of practice and company policies
- K19 appropriate records to be kept and their significance

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Glossary

Specifications:

- schedules
- method statements
- Standard Operating Procedures (SOPs)
- manufacturers' guidelines
- customer requirements
- crop requirements

Instructions could be verbal or written

Sustainable agriculture is meeting the requirements for food production while maintaining profitability and preserving the environment.

Records: could be manual or computerised

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Relevant occupations	Farmer; Supervisor; General Farm Worker; Nursery Worker; Fruit and Vegetable Production Worker; Horticultural Technician
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Suite	Agricultural Crop Production; Horticulture
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