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## Overview

This standard is for those who monitor and implement the provision of water to crops or plants, either outdoors or in protected conditions.

You will require knowledge of the principles of plant growth and development as well as plant health. This will include the co-ordination of water provision to crops or plants in any agricultural or horticultural setting, whether amenity (green roofs, gardens, sports turf, etc.) or production (fruit, vegetables, flowers, trees, etc.).

You must carry out your work in a way which will minimise the impact on the natural environment and enhance its nature, conservation and recreational value.

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## Performance criteria

*You must be able to:*

1. assess the risks associated with the site and the provision of water
2. confirm that suitable clothing and personal protective equipment (PPE) is worn
3. confirm the methods for the provision of water to crops or plants are established and clearly communicated to all those involved
4. inspect crop or plants and assess the need for the provision of water
5. seek technical advice where necessary
6. confirm relevant licences are in place where required
7. implement the provision of water to the crop or plants in accordance with specifications
8. check and confirm that the rate of water supplied to the crops or plants is at the correct level to achieve the desired results
9. monitor and evaluate the effectiveness of the provision of water
10. identify the need for adjustments to watering systems
11. confirm that the adjustments to watering systems are in accordance with the requirements of the crops or plants
12. confirm suitable levels of hygiene and biosecurity are maintained
13. check that the equipment for providing water to crops or plants is used and maintained in a safe and correct condition and arrange repairs where necessary
14. confirm work is carried out in a manner which minimises environmental damage
15. carry out your work in accordance with relevant environmental and health and safety legislation, risk assessment requirements, codes of practice and organisational policies
16. confirm appropriate records are maintained and stored as required by relevant legislation and the organisation

## Knowledge and understanding

*You need to know and understand:*

1. how to identify hazards and assess risks when providing water to crops and plants
2. the type of clothing and personal protective equipment (PPE) suitable for the activity
3. why it is important to check the condition of crops or plants in accordance with specifications
4. the stages of crops or plant development
5. the principles of sustainable production
6. the ways of monitoring water requirements for crops or plants
7. sources of technical advice for the provision of water to crops or plants
8. methods, systems and sources for providing water to the crops or plants
9. when water licences are required and how to obtain them
10. how to establish that the supply of water is suitable for the crops or plants
11. the correct use of equipment for providing water
12. use of technology to manage watering systems
13. the types of adjustments that can be made to watering systems
14. problems that may arise with the delivery of water to the crops or plants and how these should be resolved
15. the routine maintenance requirements of watering systems
16. the main advantages and disadvantages of the different watering systems which provide water to crops or plants
17. the importance of maintaining communication with those involved in providing water to crops or plants
18. methods of maintaining hygiene and biosecurity and the reasons why it is important
19. the importance of following environmental and ecological best practice to help minimise the impact of your work on the environment
20. your responsibilities under relevant environmental and health and safety legislation, codes of practice and organisational policies
21. the importance of maintaining records of water provision to crops or plants in accordance with relevant legal and organisational requirements

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**Scope/range**

- A. when providing crops or plants with water make accurate adjustments to the following:
  - 1. equipment
  - 2. water supply
  
- B. take the following appropriate action where problems occur:
  - 1. remedy the situation
  - 2. inform the appropriate person

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## Glossary

### Specifications:

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

Sustainable production: Meeting the requirements for food production while maintaining profitability and preserving the environment.

LANH14

Monitor and implement the provision of water to crops or plants



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<b>Developed by</b>	Lantra
<b>Version Number</b>	3
<b>Date Approved</b>	January 2019
<b>Indicative Review Date</b>	January 2024
<b>Validity</b>	Current
<b>Status</b>	Original
<b>Originating Organisation</b>	Lantra
<b>Original URN</b>	LANH14
<b>Relevant Occupations</b>	Farmer; Supervisor; General Farm Worker; Nursery Worker; Fruit and Vegetable Production Worker; Horticultural Technician
<b>Suite</b>	Agricultural Crop Production; Horticulture
<b>Keywords</b>	crops; plants; water; irrigation

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