

# LANLBMCU26 - SQA Unit Code F9PF 04

## Plan, monitor and evaluate the construction and maintenance of structures and surfaces



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### Overview

This unit describes planning and managing the construction and maintenance of structures and surfaces. To achieve the standards specified in this unit, you will require technical knowledge, understanding and skills in relation to legislation for construction and maintenance, and be able to manage the process effectively. Those implementing the plan might include direct labour, contractors or volunteers.

The elements are:

1. Plan the construction and maintenance of structures and surfaces  
This element covers planning the construction and maintenance of structures and surfaces.
2. Monitor and evaluate the construction and maintenance of structures and surfaces  
This element covers monitoring and evaluating the construction and maintenance of structures and surfaces.

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#### Performance criteria

*You must be able to:*

#### **Plan the construction and maintenance of structures and surfaces**

- P1 establish the **criteria** which the structure or surface is to fulfil
- P2 identify **opportunities and constraints** relevant to the site
- P3 produce **plans** that achieve the best balance between the **criteria** and the **opportunities and constraints**
- P4 identify **resources** required to achieve the **plans** and establish their availability
- P5 produce **plans** that contain the necessary information for implementation
- P6 present **plans** in a way which is suitable for those who are to implement them

*You must be able to:*

#### **Monitor and evaluate the construction and maintenance of structures and surfaces**

- P7 select monitoring methods which are appropriate to the plan and those implementing it
- P8 **monitor the work** at suitable times to check progress and the implementation of the plan
- P9 take the appropriate action if there are deviations from plan
- P10 evaluate progress and the overall achievement of the plan
- P11 carry out any additional work in order to complete the implementation of the plan within the required timescales

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### Knowledge and understanding

*You need to know and understand:*

#### **Plan the construction and maintenance of structures and surfaces**

- K1 the criteria which the structure or surface is to meet and the requirements of the planned development
- K2 the full range of legal, environmental, social, cultural and aesthetic, economic/financial, physical, organisational, timing/seasonality opportunities and constraints which may be relevant to the site
- K3 how to develop plans which achieve the best balance between different factors and the purpose of the structure or surface
- K4 how to determine the best time for the construction and maintenance work
- K5 how and why to finish structures and surfaces in ways which are consistent with the surrounding environment
- K6 how to determine the human, financial material and capital resources necessary to achieve the plan and their likely availability
- K7 the nature of the information which the plan has to contain and how to determine specific details in relation to: site preparation; methods of work; sequence of operations; disposal of waste; site restitution; health and safety
- K8 working methods, operations and waste disposal which minimise site disturbance
- K9 health and safety policy and your specific responsibilities under health and safety legislation
- K10 effective methods of presenting plans to the full range of those who are to use them taking into account their particular needs

*You need to know and understand:*

#### **Monitor and evaluate the construction and maintenance of structures and surfaces**

- K11 the nature of the plan and what it aims to achieve
- K12 environmental limitations on construction and maintenance and how to assess the environmental impact
- K13 the characteristics of those who are implementing the plan, their strengths and weaknesses, and the extent to which the quality and consistency of their work is known to you
- K14 how best to determine suitable times for monitoring given the nature of the structure or surface and those implementing the plan
- K15 how best to evaluate the quality of outcomes, quality of working methods and practices, resource use and scheduling progress
- K16 effective methods of monitoring and evaluating construction and maintenance (e.g. direct observation, electronic recording, test

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- procedure)
- K17 likely causes of deviations from plans
- K18 how to evaluate the criticality of deviations from plans and determine the actions to take
- K19 the actions to take if deviations from plans arise, including; temporary cessation of work, reporting to others and reviewing plans
- K20 organisational health and safety policy and your specific responsibilities under health and safety legislation
- K21 the limitation of your own authority/competence with respect to this work

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### Additional Information

#### Scope/range related to performance criteria

#### Plan the construction and maintenance of structures and surfaces

1. establish **criteria** for the following:
  - 1.1. purpose
  - 1.2. uses
  
2. identify the following **opportunities and constraints**:
  - 2.1. legal
  - 2.2. environmental
  - 2.3. social, cultural and aesthetic
  - 2.4. economic/financial
  - 2.5. physical
  - 2.6. organisational
  - 2.7. timing/seasonality
  
3. identify the following **resources**:
  - 3.1. human
  - 3.2. financial
  - 3.3. material
  - 3.4. capital
  
4. produce **plans** that cover:
  - 4.1. site preparation
  - 4.2. resources and their use
  - 4.3. timescale and sequence of operations
  - 4.4. working methods
  - 4.5. waste management
  - 4.6. restitution of site
  - 4.7. health and safety requirements

#### Monitor and evaluate the construction and maintenance of structures and surfaces

5. **monitor the work** for:
  - 5.1. quality of outcomes
  - 5.2. quality of working methods and practice
  - 5.3. resource use
  - 5.4. scheduling
  - 5.5. environmental impact

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**Developed by** LANTRA

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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** CU26

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**Relevant occupations** Agriculture, Horticulture and Animal Care; Horticulture and forestry; Skilled Trades Occupations; Skilled Agricultural Trades; Personal Service Occupations; Animal Care Services; Elementary Occupations; Elementary Agricultural Occupations

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**Suite** Land Based Management

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**Key words** Maintain, repair, structures, surfaces, drains, fences, sheds, holding, pens, workshops, evaluate, assess, construction.

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