

### Overview

This unit is about implementing high standards of sustainability in construction. You will need to demonstrate that you have made arrangements to deliver best practice levels of sustainability by the appointment of experienced team members and allocation of responsibilities. This will include procuring suitable contractors with demonstrable commitment to achieve the required project aims. You will need to show that you have considered the planned sustainability of the project by the management of project risks. You will need to demonstrate that you have planned and assessed the conservation of energy use for the project up to the stage of setting to work of the development by means of satisfactory operation and maintenance manuals. Thereafter you will need to show that you have taken any necessary further measures to ensure the levels of sustainability.

**Performance  
criteria**

*You must be able to:*

**Establish arrangements for sustainable development**

- P1 select and appoint **development teams** using sound **criteria**
- P2 identify and allocate project **environment and sustainability responsibilities**
- P3 select contractors by considering their adoption of **sustainability policies and management**
- P4 identify minimising and managing project risks by assessing **best practice** and adopt **sustainability policies**
- P5 confirm the design, function and performance requirements of the potential project by accounting for identified project risks in order to achieve sustainable development

**Assess and provide for the conservation of energy use**

*You must be able to:*

- P6 review legislative requirements in order to identify the energy use and control **criteria** relevant to the type of **development**
- P7 ensure that the information on the **development** necessary to assess energy use is **gathered and recorded**
- P8 ensure that solutions which meet the **criteria** for the type of **development** are reviewed, calculated and specified
- P9 prescribe commissioning procedures and certification necessary for **development**
- P10 identify and define any consequent improvements that may be required to meet energy use and control **criteria** relevant to the type of **development**
- P11 provide operating and maintenance instructions to users to enable **developments** to be operated in an energy efficient manner

## Knowledge and understanding

*You need to know and understand:*

### Establish arrangements for sustainable development

- K1 how and why to select and appoint **development teams** (evaluation)
- K2 how to confirm the design, function and performance requirements of the potential project (application)
- K3 what to identify as project **environmental and sustainability responsibilities** (understanding)
- K4 how to allocate project **environmental and sustainability responsibilities** (application)
- K5 how and why to select contractors (evaluation)
- K6 what to identify as project risks (understanding)
- K7 how and why to minimise and manage project risks (evaluation)

### Assess and provide for the conservation of energy use

*You need to know and understand:*

- K8 how and why to review legislative requirements in order to identify the energy use and control **criteria** relevant to the type of **development** (analysis)
- K9 how to ensure that information on the **development** is **gathered and recorded** (application)
- K10 how to ensure that solutions are reviewed and calculated which meet the **criteria** for the type of **development** (application)
- K11 how to ensure that solutions are specified which meet the **criteria** for the type of **development** (application)
- K12 how and why to prescribe commissioning procedures and certification necessary for **development** (evaluation)
- K13 how to identify and define any consequent improvements that may be required to meet energy use and control **criteria** relevant to the type of **development** (understanding)
- K14 how to provide operating and maintenance instructions to users to enable **developments** to be operated in an energy efficient manner (application)

**Scope/range**

**Establish arrangements for sustainable development**

- 1 Development teams:
  - 1.1 planning
  - 1.2 project management
  - 1.3 design
  - 1.4 cDM Co-ordination
  - 1.5 quantity surveying
  - 1.6 contracting
  - 1.7 sub-contracting
  - 1.8 supply
- 2 Criteria:
  - 2.1 performance on similar projects
  - 2.2 management of health, safety and environmental issues
  - 2.3 adoption of best practice guidance
  - 2.4 compatibility with stakeholder groups
  - 2.5 competence
- 3 Environmental and sustainability responsibilities:
  - 3.1 cDM co-ordination
  - 3.2 environmental and sustainability resources
  - 3.3 competent designers, contractors and supply chain
  - 3.4 information about existing property
  - 3.5 provision of health and safety file (including environment and sustainability issues)
- 4 Sustainability policies and management:
  - 4.1 waste management
  - 4.2 minimise energy consumption
  - 4.3 use of prefabricated components
  - 4.4 use of sustainable energy e.g. solar, wind & wave
  - 4.5 use of reclaimed and recycled materials
  - 4.6 storage facilities
  - 4.7 local sourcing of materials
  - 4.8 efficiency of ordering materials
  - 4.9 site security

**Scope/range**

- 4.10 health and safety practice
- 4.11 skills development
- 4.12 stakeholder management
- 5 Best practice:
  - 5.1 low energy consumption
  - 5.2 carbon dioxide emission reduction
  - 5.3 landfill waste reduction
  - 5.4 depletion of finite resources
  - 5.5 reducing landscape impact
  - 5.6 access
  - 5.7 health, safety and environmental practice
- 6 Sustainability policies:
  - 6.1 land use
  - 6.2 integration with surrounding architecture and infrastructure
  - 6.3 transport access
  - 6.4 meeting user needs
  - 6.5 impact on community (economic, environmental and social)
  - 6.6 insulating
  - 6.7 efficient building services systems
  - 6.8 efficient resource use
  - 6.9 waste recycling and disposal
  - 6.10 use of prefabricated components
  - 6.11 use of alternative and recycled materials
  - 6.12 encouraging biodiversity
  - 6.13 use of sustainable energy
  - 6.14 utilities demand
  - 6.15 protection of archaeological and historically valuable resources

**Assess and provide for the conservation of energy use**

- 7 Criteria:
  - 7.1 carbon dioxide emissions
  - 7.2 efficiency of construction
  - 7.3 efficiency of systems

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**Scope/range**

- 8 Development:
  - 8.1 new development
  - 8.2 existing development
  - 8.3 condition survey
  - 8.4 energy measurement and assessment tools
- 9 Gathering and recording:
  - 9.1 design proposals
  - 9.2 measured survey
  - 9.3 condition survey
  - 9.4 energy measurement and assessment tools



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