

COSBEDO13 - SQA Unit Code H6AG 04

Identify project energy efficiency and carbon minimisation requirements in built environment design



Overview

This unit is about identifying the optimum energy efficiency and carbon minimisation measures for developments and reporting your findings to decisions makers.

**Performance
criteria**

You must be able to:

- P1 confirm **energy efficiency and carbon minimisation** goals and priorities for potential **developments**, when in-use both currently and in the future
- P2 confirm legislation, regulations and standards relevant to **energy efficiency and carbon minimisation** when **developments** are in-use
- P3 identify the **factors** that need to be considered in choosing the optimum **energy efficiency and carbon minimisation measures** for **developments**
- P4 report findings to decision makers in order that optimum **energy efficiency and carbon minimisation measures** can be selected

**Knowledge and
understanding**

*You need to know
and understand:*

- K1 how to confirm **energy efficiency and carbon minimisation** goals and priorities for potential **developments**, when in- use both currently and in the future (application)
- K2 how to confirm legislation, regulations and standards relevant to **energy efficiency and carbon minimisation** when **developments** are in-use (application)
- K3 how to identify the **factors** that need to be considered in choosing the optimum **energy efficiency and carbon minimisation measures** for **developments** (understanding)
- K4 how to report findings to decision makers in order that optimum **energy efficiency and carbon minimisation measures** can be selected (application)

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Scope/range

- 1 Energy efficiency and carbon minimisation:
 - 1.1 low energy consumption
 - 1.2 low carbon targets
- 2 Development:
 - 2.1 new build
 - 2.2 adaptation
 - 2.3 alteration
 - 2.4 refurbishment/upgrading
 - 2.5 conservation
 - 2.6 demolition/decommission
 - 2.7 relocation
- 3 Factors:
 - 3.1 energy sources and infrastructure
 - 3.2 energy distribution mechanisms efficiency and costs
 - 3.3 energy delivery mechanisms efficiency and costs
 - 3.4 energy controls efficiency and costs
 - 3.5 environmental impact and sustainability level of energy demand
 - 3.6 installation
 - 3.7 maintenance
 - 3.8 quality (including design)
 - 3.9 cost (including whole life costs/return on investment)
 - 3.10 time
 - 3.11 energy and low carbon standards and strategies
 - 3.12 development phases (design, procurement, construction & installation, operation, maintenance, demolition/decommissioning)
 - 3.13 short, medium and long-term implications
 - 3.14 user preference

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