COSBEDO13
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

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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

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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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Additional Information

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

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