

COMPETENCE MODULE SHEET

A

Design of Engineering Systems (Public Health - core)

OBJECTIVE:

Demonstrate capability in the planning, execution and management of the design process, from concept to tender/detail design stage, of the core public health engineering systems in modern construction projects:

- A (PH1) Drainage Systems (above ground)
- A (PH2) Drainage Systems (below ground)
- A (PH3) Hot and Cold Water Services
- A (PH4) Conservation and Sustainability

Note: See separate sheets (PH1) – (PH4).

TYPICAL EVIDENCE RECORD: Some of the following, or similar:

- Analysis, assessment and/or calculations
- Preliminary sketch designs
- Project calculation files
- Schematic and layout drawings
- Specifications or proposals

TYPICAL COMPETENCE ASSESSMENT: Some of the following, or similar:

- Correct design approach to satisfy brief criteria
- Correct application of regulations and standards
- Correct assessment of demand criteria
- Correct selection of system arrangement and ratings
- Correct design development calculations
- Correct drawing/ specification/ solution/ development

TYPICAL ACTIVITIES: Some of the following, or similar:

- *On-the-job training in a project design team*
- *Study of CIBSE online modules*
- *Lectures and seminars on this subject*
- *Private study of British Standards, other standards, design guides, manufacturers' technical literature, journals and publications*
- *Project design work*