
Overview

This national occupational standard is about reviewing drawings which have been produced by designers. The drawings must meet the technical requirements required by the design. It requires accessing information from a range of sources and using it to check the accuracy and conformity to the design requirements. The designs, and the format they are in, must adopt the conventions used commonly across the utility industries.

Performance criteria

You must be able to: **Review design compliance using utility industry standards and technical information**

1. locate and extract information from up-to-date standards and technical information used within the utility industries
 2. use the information extracted to determine the features required within drawings
 3. use the information extracted to determine the materials, formats, and conventions which can be used
- Review detailed technical drawings
4. review the requirements of the detailed drawings
 5. use up-to-date data storage to keep the technical information secure
 6. liaise with colleagues, and clients, who have technical expertise and who can provide assistance when required
 7. deal promptly and effectively with any problems with the technical information and its interpretation

Knowledge and understanding

You need to know and understand: **General**

1. UK legislative requirements for health and safety and the environment, standards, directives and guidelines, and working practices
2. UK standards, procedure manuals, and operating parameters
3. principles of design, including design data from the latest versions of uk standards
4. utility industry accepted working practices and industry guidelines
5. utility network engineering principles and processes
6. structure and content of client specifications
7. structure and content of manufacturing specifications

Specific

8. company lines of communication and reporting procedures
9. how to select data, including loads, lengths, layouts, quantities, materials, scales, dimensions, units, code references, standards
10. how to select features for inclusion in technical information
11. how to use electronically generated and paper-based drawings
12. how to use technical information document and storage systems
13. standards, materials, formats and conventions used for utility network drawings
14. types and sources of technical information required for drawings, including specifications, manufacturer and vendor bulletins, codes, and data sheets

Behaviours

You work in a manner which:

1. responds positively and creatively to setbacks
2. takes pride in delivering high quality work

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Relevant Occupations Engineering; Construction, planning and the built environment; Draughtpersons and Building Inspectors; Design Associate Professionals

Suite Multi-Utility Network Design

Keywords specifications, format, conventions
