

SFS SYS 21 (SQA Unit Code - H4H5 04)

Review drawings to prepare specifications of electronic security systems



Overview

This NOS sets out the skills, knowledge and understanding for you to review drawings to produce designs and specifications of electronic security systems and their installation.

This NOS covers the following activities:

1. Review drawings to collect information for the design, installation and maintenance of electronic security systems
2. Produce designs and specifications of electronic security systems and their installation

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Performance criteria

Review drawings to collect information for the design, installation and maintenance of electronic security systems

You must be able to:

- P1 confirm you have all the necessary and correct details of customer requirements to review drawings
- P2 recognise and record accurate and relevant factors and site characteristics that could impact on designs, specifications and installation
- P3 record relevant accurate details and data on which designs and specifications can be produced and installations can be carried out
- P4 carry out review in line with relevant codes of practice
- P5 maintain the confidentiality of information, sites and systems in line with current relevant legislation, standards and codes of practice

Produce designs and specifications for electronic security systems and their installation

You must be able to:

- P6 confirm that you have sufficient correct information and have had relevant consultations to design and specify systems that meet customers requirements
- P7 design systems that meet required performance using data and information provided through surveys
- P8 produce system designs and specifications that optimise costs and that are appropriate to installation sites
- P9 provide designs and specifications which enable successful installation and operation of systems
- P10 produce designs and specifications for systems that meet the requirements of relevant legislation, regulations, standards and codes of practice
- P11 provide designs and specifications in agreed formats, within required timescales and to the appropriate person
- P12 identify specialised contractors where required
- P13 obtain or produce approvals and certification required for systems

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Knowledge and understanding

You need to know and understand:

Legal and Organisational requirements

- K1 current relevant legislation, regulations, standards and codes of practice relating to the system to be installed
- K2 current relevant laws, regulations, standards and codes of practice relating to the installation and operation of systems

Review drawings to collect information for the design, installation and maintenance of electronic security systems

You need to know and understand:

- K3 the details you need for preparing system designs and specifications, and from where to get these details
- K4 why you must have accurate and up to date details of systems, sites and customer requirements
- K5 when you might need to liaise with other people to review drawings
- K6 how to read and interpret architectural and similar drawings take appropriate measurements and record relevant details of review
- K7 how to recognise factors that could affect system installation or operation, and how to record the details fully and accurately

Produce designs and specifications for electronic security systems and their installation

You need to know and understand:

- K8 why it is important to have and use sufficient valid, accurate and up to date information from surveys
- K9 the limits, constraints and capabilities of organisation involved in the installation and operation of systems
- K10 the performance, limitations, cost and availability of systems, equipment transmission and system components that you could specify in your designs
- K11 formats of and information required for designs and specifications
- K12 typical timescales and activities involved in the installation of systems, including manpower requirements
- K13 how to communicate and work with other people

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Glossary

In these National Occupational Standards;

sites: premises of installations. For example (but not exhaustive) commercial; industrial; retail; domestic; governmental

specification: the specific detail containing design, installation, commissioning or maintenance requirements

systems: a set of components working together. For example (but not exhaustive) new installations; extensions; modifications

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