

SFS SYS 4 (SQA Unit Code - H4GX 04)

Survey sites to prepare specifications for electronic security systems



Overview

This NOS sets out the skills, knowledge and understanding for you to collect and record information for the design and specification of electronic security systems and their installation.

You must know and comply with the legislation, regulations, standards and codes of practice that are relevant to the systems for which you carry out surveys and produce designs and specifications.

This NOS covers the following activities:

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

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Performance criteria

Survey sites 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 carry out site surveys
- P2 use survey methods that are appropriate to the type of system, transmission system, site and customer requirements
- P3 recognise and record accurate and relevant factors and site characteristics that could impact on designs, specifications and installation
- P4 record relevant accurate details and data on which designs and specifications can be produced and installations can be carried out
- P5 complete surveys within agreed timescales
- P6 carry out surveys in line with relevant codes of practice
- P7 maintain the confidentiality of information, sites and systems in line with relevant legislation, codes of practice

Produce designs and specifications for electronic security systems and their installation

You must be able to:

- P8 confirm that you have sufficient correct information and have had relevant consultations to design and specify systems that meet customers requirements
- P9 design systems that meet required performance using data and information provided through surveys
- P10 produce system designs and specifications that optimise costs and that are appropriate to installation sites
- P11 provide designs and specifications which enable successful installation and operation of systems
- P12 produce designs and specifications for systems that meet the requirements of relevant legislation, regulations, standards and codes of practice
- P13 provide designs and specifications in agreed formats, within required timescales and to the appropriate person
- P14 maintain the confidentiality of information, sites and systems in line with relevant regulations, legislation and codes of practice
- P15 identify specialised contractors where required
- P16 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

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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 survey sites
- K6 how to carry out surveys, take appropriate measurements and record relevant details of surveys
- K7 how to read and interpret architectural and similar drawings
- K8 how to recognise factors that could affect system installation, transmission or operation, and how to record the details fully and accurately
- K9 how to communicate and work with other people

Produce designs and specifications for electronic security systems and their installation

You need to know and understand:

- K10 why it is important to have and use sufficient valid, accurate and up to date information from surveys
- K11 the limits, constraints and capabilities of organisation involved in the installation and operation of systems
- K12 the performance, limitations, cost, and availability of systems, equipment and components that you could specify in your designs
- K13 formats of and information required for designs and specifications
- K14 typical timescales and activities involved in the installation of systems, including manpower requirements

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Glossary

In these National Occupational Standards;

factors: local conditions of the site that could affect or influence the design or installation. For example (but not exhaustive) environmental; use; occupancy; access; structure

site characteristics: physical layout, dimensions, structure and use

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 as an interconnecting network. For example (but not exhaustive) new installations; extensions; modifications

transmission: the interconnection of system components. For example (but not exhaustive) wired, wireless, networking

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