

SFS SYS 6 (SQA Unit Code - H4GK 04)

Plan the installation of electronic security systems



Overview

This NOS sets out the skills, knowledge and understanding for you to confirm relevant information required about electronic security systems and sites to plan and co-ordinate installations.

This NOS covers the following activities:

1. Confirm the details of electronic security system requirements
2. Plan and co-ordinate the use of resources to install electronic security systems
3. Organise first fixes of installation

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Performance criteria

Confirm the details of electronic security system requirements

- You must be able to:*
- P1 confirm that you have all the information and details required to plan system installations and that it is current and accurate
 - P2 confirm that specified systems are compatible with site characteristics and are capable of meeting operational requirements
 - P3 confirm the availability of transmission and system components
 - P4 record details of variations from original specification accurately and fully

Plan and co-ordinate the use of resources to install electronic security systems

- You must be able to:*
- P5 confirm that you have all the relevant details of work activities required to plan system installations, and that they are accurate and complete
 - P6 communicate and agree working arrangements with customers and third parties where necessary, that are mutually acceptable
 - P7 confirm that all necessary resources will be available when required
 - P8 produce project plans that are realistic and in formats that are suitable for their purpose
 - P9 anticipate and plan contingency action to deal with potential problems with work schedules or arrangements
 - P10 safely identify the presence of electrical supply, into and inside, electronic security systems equipment
 - P11 identify the means for safe isolation of electrical supply systems

Organise first fixes of installation

- You must be able to:*
- P12 select the correct types of transmission and system components for the site characteristics and installation, containments and fixings to suit
 - P13 provide details of first fixes to the people involved with installations in suitable formats and within agreed timescales

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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 installation and operation of systems
- K2 current relevant legislation, regulations, standards and codes of practice relating to cabling security systems

Confirm the details of electronic security system requirements

You need to know and understand:

- K3 the principles of system design and installation including how environmental factors can affect the operation and performance of transmission and system components
- K4 how to relate system design specification to customers requirements relevant to security systems
- K5 the performance, limitations and availability of the transmission and system components
- K6 the properties of commonly used building materials and how these could influence installation work
- K7 how to confirm details of system requirements
- K8 how to communicate and work with other people

Plan and co-ordinate the use of resources to install electronic security systems

You need to know and understand:

- K9 why it is important to have full and feasible plans in order to carry out efficient and effective installations
- K10 how to relate system design specification to the customers' requirements relevant to security systems
- K11 the principles of project planning and how to use common planning tools, and techniques
- K12 installation activities, their typical timescales, and how to plan and coordinate them
- K13 how to match skill requirements for installation with the skills of available personnel
- K14 the typical problems that can occur and how to plan to deal with them
- K15 how to plan and co-ordinate the use of resources
- K16 why it is important to co-ordinate with other trades
- K17 why you need to identify the presence of electrical supply and how it can be isolated safely

Organise first fixes of installation

You need to know and understand:

- K18 how to interpret system design specification and site information relevant to selecting types of transmission components
- K19 electrical, signalling and transmission principles

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K20 the uses of different types of transmission systems

K21 the properties of typical building materials that could affect the transmission systems

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Glossary

In these National Occupational Standards;

electrical supply systems: supply to the system components, such as primary and secondary supplies

site characteristics: physical layout, dimensions, structure and use

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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