

SFS SYS 10 (SQA Unit Code - H4GM 04)

Install electronic security systems



Overview

This NOS sets out the skills, knowledge and understanding for you to install equipment for electronic security systems and restore sites.

This NOS covers the following activities:

1. Prepare to install electronic security systems
2. Install transmission and system components
3. Inspect and test transmission and system components
4. Restore sites after installing transmission and system components

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Performance criteria

Prepare to install electronic security systems

- You must be able to:*
- P1 make sure you have the information you need to install system components
 - P2 confirm that you have sufficient components to complete the installation
 - P3 confirm that all necessary tools are available
 - P4 safely identify the presence of electrical supply, into and inside, electronic security systems equipment
 - P5 identify the means for safe isolation of electrical supply systems

Install transmission and system components

- You must be able to:*
- P6 fit all transmission and system components in accordance with the specification to optimise operation and maintenance
 - P7 use suitable fixing devices and methods that are appropriate to site and building materials
 - P8 make sure that installed transmission and system components are free from damage or internal obstruction
 - P9 avoid unnecessary damage to building structures and surfaces
 - P10 comply with relevant health and safety requirements while installing
 - P11 use the correct tools and equipment to position and mount equipment safely

Inspect and test transmission and system components

- You must be able to:*
- P12 make sure that installed transmission and system components are free from damage or obstruction
 - P13 confirm transmission and system components meet their required operating performance, using appropriate testing methods
 - P14 label installed transmission and system components in line with the specification
 - P15 comply with relevant health and safety requirements while installing transmission and system components
 - P16 test and record against appropriate documentation

Restore sites after installing transmission and system components

- You must be able to:*
- P17 close and seal any openings made, securely in line with relevant codes of practice and suppliers' guidelines
 - P18 make good any damage to building structures or surfaces in accordance with the specification
 - P19 report the details to the relevant person of any damage that you cannot repair
 - P20 remove installation tools and equipment from sites after use, reporting the details to the relevant person of any that are unserviceable

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- P21 return spare or reusable equipment and materials to their designated locations
- P22 dispose of waste, debris and surplus materials in line with approved procedures and relevant regulations, standards and codes of practice
- P23 make permanent any temporary site arrangements on completion of installation work
- P24 comply with relevant health and safety requirements while restoring installation sites

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Knowledge and understanding

You need to know and understand:

Legal and Organisational requirements

- K1 current relevant legislation, regulation, standards, codes of practice and guidelines relating to installing electronic security systems
- K2 current relevant legislation, regulation, standards, codes of practice and guidelines relating to handling waste or debris material
- K3 why it is important to dispose of waste, debris and surplus material safely and in line with the relevant regulations, standards and codes of practice

Prepare to install electronic security systems

You need to know and understand:

- K4 how to relate physical locations for transmission and system components to technical documents
- K5 how you are going to install transmission and system components, particularly anticipating potential problems
- K6 the limits of your authority and responsibility, and how to get help when you need it
- K7 why it is important to check the safe and correct operation of tools and equipment, how to do this and how to deal with any that do not meet requirements
- K8 the capabilities and limitation of the tools and equipment that you use, and why it is important to use the correct tools and equipment
- K9 what documents you need to install systems and how to use them
- K10 why you need to identify the presence of electrical supply and how it can be isolated safely

Install transmission and system components

You need to know and understand:

- K11 how to relate equipment and their physical locations to technical documents
- K12 the different types of fixing for transmission and system components
- K13 the different types and properties of transmission methods
- K14 the properties of building materials and how to fit equipment
- K15 how to safely handle equipment during installation

Inspect and test transmission and system components

You need to know and understand:

- K16 why it is important to comply with segregation requirements (for power and signalling)
- K17 how to test transmission and system components against their required operating performance and what to do when these requirements are not met
- K18 why it is important that installed transmission and system components are free from damage or obstruction

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- K19 how to label installed transmission and system components in line with the specification
- K20 why it is important to comply with relevant health and safety requirements while installing transmission and system components
- K21 how and why it is important to test and record against appropriate documentation

Restore sites after installing transmission and system components

You need to know and understand:

- K22 why you must remove all unwanted items from sites after installation of equipment is complete
- K23 the house-keeping requirements at the sites where you install equipment
- K24 why it is important to dispose of waste, debris and surplus material safely and in line with the relevant regulations and codes of practice
- K25 methods of repairing typical building surfaces
- K26 how and why it is important to close and seal any openings made, securely in line with relevant codes of practice and suppliers' guidelines
- K27 why it is important to report the details to the relevant person of any damage that you cannot repair
- K28 why it is important to comply with relevant health and safety requirements while restoring installation sites

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Glossary

In these National Occupational Standards;

containment: For example (but not exhaustive) basket; conduit; ducting; ceiling voids; trays; surface mounted; catenaries

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

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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