

SFS SYS 11 (SQA Unit Code - H4GN 04)

Test and confirm operation of electronic security systems



Overview

This NOS sets out the skills, knowledge and understanding for you to carry out operational tests on systems.

This NOS covers the following activities:

1. Test and confirm operation of electronic security systems

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Performance criteria

You must be able to:

- P1 safely identify the presence of electrical supply, into and inside, electronic security systems equipment
- P2 identify the means for safe isolation of electrical supply systems
- P3 identify the relevant tests that you are to carry out on the system
- P4 make sure that test equipment is working properly and calibrated where necessary before starting tests
- P5 confirm testing arrangements with customers and third parties where necessary, that are mutually acceptable
- P6 carry out required tests in line with approved procedures and codes of practice
- P7 take appropriate action to remedy situations where systems or equipment do not meet their operational requirement
- P8 record tests results accurately and fully, using the approved recording methods and formats
- P9 provide tests results in the approved format to the relevant person, within agreed timescales
- P10 comply with relevant health and safety requirements while testing systems
- P11 confirm that all system documents have been completed, collated and are available for handing over to the relevant person
- P12 confirm that all administration documents required by your organisation are complete, accurate and passed to the relevant person
- P13 confirm that sites are clear of tools, equipment, waste and surplus materials when systems are handed over to customers
- P14 give full and accurate information to customers and third parties where necessary about arrangements for handover, maintenance, further work and any enquiries
- P15 give the required details of systems and handover arrangements to alarm receiving centres where necessary

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Knowledge and understanding

You need to know and understand:

- K1 current relevant legislation, regulation, standards, codes of practice and guidelines relating to the operation and testing of systems
- K2 the tests relevant to the systems and equipment you test
- K3 the expected operation of systems and equipment being tested, including the expected results of the tests you carry out
- K4 why it is important to make sure test equipment is working properly, and calibrated where necessary
- K5 the purpose of and how to use the relevant test equipment and interpret results
- K6 sufficient relevant transmission and system components theory for you to interpret the results of the tests you carry out
- K7 the limits of your authority and responsibility in taking direct action to deal with equipment that does not meet its operational requirement
- K8 why it is important to record accurate details of test results and make them available to the relevant person
- K9 how to discuss and negotiate work arrangements with customers to achieve mutual satisfaction
- K10 why you need to identify the presence of electrical supply and how it can be isolated safely
- K11 how to confirm that systems, their associated equipment and operational performance meet the specification
- K12 what documents and information should be given to customers and why it is important that customers have this
- K13 what administration documents are required by your organisation after completed installations and why it is important that these documents are complete and accurate
- K14 your organisation's arrangements for site clearance and restoration, handovers, maintenance, further work and customer complaints
- K15 how to communicate and work with other people

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Glossary

In these National Occupational Standards;

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

tests: For example but not exhaustive - visual; electrical, operational, induced faults

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

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