

Apprenticeship Training Programme

Phase 1:

Workplace Training and Assessments

Phase 2:

Introduction
Electrical Principles
Intruder Alarms
CCTV
Fire Alarms
Access Control

Phase 3:

Workplace Training and Assessments

Phase 4:

Customer Communications
Electrical and Electronic Systems
Intruder Alarms
CCTV
Fire Alarms
Access Control

Phase 5:

Workplace Training and Assessments

Phase 6:

Data Network Systems
Electronics Systems
Intruder Alarms
CCTV
Fire Alarms
Access Control

Phase 7

Workplace Training and Assessments

The overall duration of this apprenticeship is a minimum of 4 years provided all phases are successfully completed. On successful completion of the programme the learner is awarded a Certificate.



For further information please contact:

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or log onto www.SOLAS.ie

The Craft of Electronic Security Systems



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 **Apprenticeship**

KNOWLEDGE. SKILL. COMPETENCE

Overview

The craftsperson is required to design, plan, risk assess, install, program and commission a wide range of integrated security systems in line with all the relevant Irish and EU standards. These security systems include Intruder Alarms, Fire Alarms, CCTV Systems, Single and Multi Point Control Systems, Intercom Systems, Gate Automation Systems, Perimeter Control Systems, Electronic Tagging and any other equipment relevant to the industry.

The craftsperson is also required to compile system and customer documentation, demonstrate systems operation, train clients and system operators, carry out system analysis & investigations, maintain, repair and constantly assess the needs for upgrading of security systems.

Work activities

Working in the craft of Electronic Security Systems will require knowledge and practical application of:-

- Selection, procurement, safe utilisation of and storage of security installation tools, equipment and materials.
- Assessment, interpretation and implementation of ETCI wiring regulations, installation inspection and testing procedures.
- Installation of plastic conduit, steel trunking and plastic trunking containment.
- Interpretation of circuit schematics, technical data, manufacturing standards and architectural drawings which incorporate IEC symbols.
- Interpretation of equipment assembly, disassembly and adjustment procedures.
- Completion and updating of job-related documentation.
- Relevant basic IT skills appropriate to the trade.
- Awareness of Health & Safety requirements for the industry.

Aspects of Work

The craftsperson within their working environment will be involved in:-

- System fault analysis
- Interpretation of electrical/electronic schematic diagrams
- Interpretation of flow, function and ladder charts
- Installation and programming of control systems
- Installation and calibration of sensors
- Installation of data, network and optical communications systems

Examples of the Specialist Skills that a craftsperson will develop are as follows:-

- Installation of equipment in hazardous environments.
- Installation and maintenance of:
 - Intruder Alarm Systems
 - Single/Multi Point Access Control Systems
 - CCTV Systems
 - Fire Alarm Systems
 - Intercom Systems
 - Gate Automation Systems
 - Perimeter Control Systems
 - Electronic Tagging
 - Standby power and battery systems
 - Lightning Protection Systems

Personal qualities and Skills

You must have good practical skills and a high level of technical knowledge. You need to be physically fit to cope with bending, lifting and stretching. You will need nimble fingers to handle small parts and hand tools.

You should be logical, patient and have good organisational skills to prioritise your workload. It is important to have good communication skills to deal effectively with customers. Adaptability, initiative, planning, problem solving, information gathering and the ability to work in a team environment are also important attributes for a craftsperson working in this trade.

Opportunities

Opportunities arise from time-to-time for people to progress their careers. Many persons use an apprenticeship as a first step in proceeding to such occupations as instructors, teachers, training advisers, supervisors, managers and owners of businesses.

Where apprentices and craftspeople have the necessary ability, initiative and basic qualifications, opportunities are available for advancement. These include advanced technological and management courses which are available in Institutes of Technology, schools of management, professional institutes and other education and training providers.

People anxious to advance themselves in their careers are advised to discover for themselves what opportunities are available.