National Apprenticeship - Occupational Profile

Craft Occupation	Electronic Security Systems
Industry Served	Security Installation Industry
Profile of Craft	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 & investigation, maintain, repair and constantly assess the needs for upgrading of security systems.

At the end of the apprenticeship, the craftsperson will be able to demonstrate competence in the following skills: |
| **Core Skills** | 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. |
| **Specialist Skills** | 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 |

Apprenticeship
Real-life Learning

Common Skills

- System fault analysis skills
- 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 communication systems

Personal Skills

- Communications
- Customer relations
- Adaptability
- Teamwork
- Initiative
- Problem solving
- Planning
- Information gathering

NOTE: Integrated curriculum includes maths, science and theory

Apprenticeship
Real-life Learning