

### Industries

- Principal to all Ex environments, with direct application in hazardous vapour and gas environments

### Entry Quals Guidance

Level 3, ECS Gold Card, National Diploma or equivalent

Discipline:

- Electrotechnical
- Instrumentation

*\* Subject to knowledge, skill and experience candidates may benefit from ExF+*

### Entry Knowledge - Expected

- Knows the relevant legislative, regulatory, local requirements.
- Understands procedures for safe working practice and systems of work in an industrial setting
- Can read and interpret relevant engineering drawings, related specifications, quality standards and equipment manuals
- Understands the hierarchy of responsibilities in relation to reporting and decision-making

### Entry Skills - Expected

- Practical skills in engineering assembly of a complexity consistent with that of a level 3 craftsperson
- Can apply safe working practices including safe isolation to meet the requirements of statutory and non-statutory regulations.
- Can safely install, inspect, test, commission, diagnose and correct faults in electrical plant, instrumentation, associated cabling, cabling supports and equipment.
- Can select, gland & terminate industrial type cables to a suitable component and associated cable tray in line with details on the appropriate specification.
- Can interpret manufacturers documentation for correct installation, maintenance and inspection.

### Job Roles

*Aspiring to or operating in*

- Installation or Maintenance Electrician
- Electrical or Instrument Technician
- Engineers

### Entry Experience Guidance

- 2 + years' experience operating in a site / industrial environment
- Installing, inspecting, testing and/or maintaining equipment in an industrial setting

### Entry Knowledge - Desirable

- Understands the need for and methods of achieving safe working practice in gas and vapour Ex environments.
- Has basic practical, theoretical and technological knowledge and understanding of gas and vapour Ex environments
- Has a basic understanding of the requirements, materials and equipment considerations, in relation to working in gas and vapour Ex environments

### Entry Skills - Desirable

- Can select and install a variety of Ex certified cables glands and terminate conductors into equipment.
- Can understand the principles of electrical protection concepts including selection, installation and maintenance
- Understands intrinsically safe concept of protection and installation including the importance of documentation.
- Can inspect new and existing equipment in accordance with appropriate inspection techniques relevant to the different grades of inspection