

Industries

- Water Utilities Ex environments involving waste water, treatment and holding

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 and certification standards for correct installation, maintenance and inspection.

Job Roles

Aspiring to or operating in

- Installation or Maintenance Electrician
- Level 3 Operatives
- Electrical or Instrument Technician
- Engineers

Entry Experience Guidance

- 2+ years' experience operating in a Water Industry Ex environment, installing, inspecting, testing and/or maintaining Ex Certified equipment

Entry Knowledge - Desirable

- Has practical, theoretical and technological knowledge and understanding of water industry Ex environments
- Understands the need for and methods of achieving safe working practice in water industry Ex environments.
- Understands the requirements, materials and equipment considerations, in relation to working in water industry Ex environments
- A working knowledge of WIMES and water industry related specifications

Entry Skills - Desirable

- Can select and install a variety of Ex certified cable glands.
- 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