

JOB DESCRIPTION

Job Title: Junior Instrumentation & Control Engineer

Responsible to: Technical Director

Job Function

To design, pre-commission and set to work refrigeration plant, systems, associated equipment and low voltage electrical and control systems in a planned and safe manner.

To inspect refrigeration plant, control and starter panels during manufacture.

To program and perform functional tests of programmable controllers.

Accountabilities

- To pre-commission and commission control systems in accordance with Company procedures, environmental and Health & Safety regulations.
 - To test and report on all aspects of plant operation including power circuits, MCC Panels, gas detection systems, drive motors, controls, etc
 - Design and implement control systems for refrigeration plants.
 - Create Functional Design Specifications based on Design Notes, P&ID's and other project documents.
 - To oversee the work of service engineers and technicians when assisting in the commissioning works.
 - Create wiring diagrams.
 - To check system wiring diagrams, Outline Specifications, Design Notes and Functional Design Specifications prior to setting to work to ascertain the scope of the works and to liaise with the Project Engineer and Engineering design departments to produce check sheets and schedules.
 - To liaise with the customer to systems are designed and implemented according to specifications.
 - To provide training to the customers operators.
 - To report any deficiencies, defects and omissions to the Project Engineer.
 - To inspect and witness test control and starter panels at the supplier's works.
 - To inspect and witness test package units during and after manufacture at the suppliers works.
 - To check and assist (where required) with the production of plant operating and service manuals.
 - To assist in the design, programming and commissioning of SCADA systems and associated controls.
 - To perform function tests of PLC and other micro-control systems.
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Dimensions

Undertakes work on contracts up to £5m value under supervision of Senior Engineers. Works on own initiative to ensure the safe operation and commissioning of Industrial refrigeration systems, complying with Environmental, Health and Safety legislation and EC directives. Oversees the work of sub-contractors and suppliers where appropriate.

Knowledge/Experience/Training Required:

Fully conversant in Mandarin. Spanish is desirable.

Must be able to work on own initiative with good communication skills. "Diplomatic" – liason required with customers, consultants, etc.

Must be able to work in a team.

Knowledge of Environmental, Health & Safety regulations and relevant EC Directives (PED, Machinery Safety, ATEX, LVD and EMC)

Low Voltage power circuit's and Electrical Safety Regulations. Specialist familiarization training would be supplied for medium voltage and high voltage work.

Good working knowledge of PC based controls and instrumentation, including PLCs.

Good working level of word processors, spreadsheets e-mail and similar software.

Must be prepared to work away from home for extended periods, including overseas, when required.

Must be prepared to respond on short notice on certain circumstances.