



## JOB DESCRIPTION

<b><u>Job Title:</u></b>	Test Engineer
<b><u>Reports To:</u></b>	Chief Test Engineer
<b><u>Salary:</u></b>	24,000-28,000 depending on experience
<b><u>Hours:</u></b>	37.5 (fixed hours)

### **Responsibilities:**

#### *Goods Receipt Inspection – Checking:*

- (a) Paint/fabrication of bought out panels to works instruction and relevant engineering drawings
- (b) Contact positions of switches to special order documentation and sketches
- (c) Bought out mimic panels for dimension and layout to relevant drawings
- (d) Any specialist bought out equipment

#### *Mechanical Inspection – Checking:*

- (a) Tightness of fixings on assembled items
- (b) Layout of equipment to relevant engineering drawings and parts list
- (c) Fitting of labels to relevant engineering drawings and diagrams

#### *Electrical Inspection – Checking:*

- (a) Point to point wires - position, number and colour of connections
- (b) Contact position of switches - colour, rating and fitment of fuse/links
  - Checking correct relays and instruments are fitted
  - Checking tightness of connections and security of wiring
- (c) Insulation of wiring using 500V meggers and 0 – 5kV insulation testers
- (d) High voltage insulation tests on pilot wire protection circuits upto 15kV
- (e) High voltage insulation tests on bushing type insulators and outdoor circuit breakers using 0 – 100kV insulation tester

#### *Function Testing*

- (a) Testing operation of relays/instruments using secondary injection test sets, voltage sources and measuring instruments
- (b) Testing contact operation of relays using simulators and continuity tester
- (c) Checking/testing functionality of circuits using schematic diagrams
- (d) Programming of relays to supplied documentation, schematic diagrams and programmable setting files and logic

#### *Documentation*

- (a) Raising test documentation (product inspection progress/fault sheets and standard test specification)
- (b) Raising goods return documentation for rejected product

- (c) Raising warehouse accept documentation
- (d) Checking correct drawings are issued to works instruction and correct testing procedure is carried out
- (e) Raising test certification
- (f) Raising special test documentation

#### *Contacts*

- (a) Reporting to the Chief Test Engineer and Operations Director
- (b) Liaising with all other departments to complete the job
- (c) Liaising with suppliers and customers
- (d) Demonstrating functional testing and factory acceptance tests

#### *Other Duties*

- (a) Calibration of instruments and special tools
- (b) Ensuring health and safety of client inspectors
- (c) Identification and purchase of tools and instruments
- (d) QA documentation
- (e) Ensuring jobs meet programme target dates
- (f) Maintenance of batteries and test equipment
- (g) Design and manufacture of specialist test equipment
- (h) Working on site testing/commissioning of Acrastyle products

#### **Essential Criteria**

- Experience in a manufacturing working environment
- Experience of working independently and as part of a team
- Ability to meet deadlines and achieve targets
- Good attention to detail
- Ability to fault find on electrical circuits

#### **Desirable Criteria**

- Qualified as an electrician
- Electrical Engineering HNC (or equivalent)
- Knowledge of protection and control systems
- Understanding of ISO 9:001 QA systems
- Experience in a protection and control discipline or background
- Experience of Micom Agile, Siemens Digsig, GE EnerVista and other protection relay software