

## Functional Testing Engineer (FAT3)– Job Specification



<b>Job Title:</b>	Functional Testing Engineer (FAT 3)
<b>Reports To:</b>	Test and Inspection Manager
<b>Salary:</b>	£40,000pa - £50,000 per annum
<b>Hours:</b>	37.5 (fixed hours)

### Job Summary:

The duties within the Test and Inspection department are best categorised in work definitions and assigned to various job roles. The Functional Testing Engineer is additionally required to deputise in the absence of the Test and Inspection Manager.

### Requirements:

- Experience Functional Testing Siemens, GE, Schneider & Qualitrol Relays
- Experience with Omicron Test Kits and Test Universe.
- IEC 61850 Experience (Desirable)
- Great Communication skills to deal with customers.
- Computer Skills

### Responsibilities:

#### *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

#### *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

## Functional Testing Engineer (FAT3)– Job Specification



### *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

### *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 Test and Inspection Manager 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 via Acrastyle s procedures.
- (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

## Functional Testing Engineer (FAT3)– Job Specification



- (g) Design and manufacture of specialist test equipment
- (h) Working on site testing/commissioning of AcraStyle products
- (i) Supervising, developing and motivating staff
- (j) Overseeing all areas of test and ensuring the smooth running of all processes
- (k) Ensuring that products are manufactured in line with the company's quality systems, processes and procedures
- (l) Ensuring Health and Safety rules and regulations are adhered to and all matters are dealt with in line with the company's Health and Safety policy
- (m) Working closely with departments to ensure handovers are completed
- (n) Maintaining housekeeping standards to ensure a clean and safe workplace
- (o) Resource planning and job allocation in the Chief Test Engineer's absence
- (p) Any other necessary duties