# JOB ROLE OVERVIEW

## Fitter Instrumentation (ISC/Q1102)

This job is all about installing, dismantling, removing, replacing a range of components down to subassembly level right from pick-up unit / point of measurement and linking either directly to the instrument or to the instrument panel. This also involves making suitable slot on panel and fixing instrument and its associated parts under supervision of Technician Instrumentation.

### Role Description

### Version

1.0

### NSQF Level

3

### Minimum Educational Qualifications

- 10th standard (Science) Pass
- ITI Pass

### Maximum Educational Qualifications

- Hand/power Tools & metallurgy to understand strength of fixing and fixed devices
- Component Drawings / Documents and Instrumentation
- Mechanical detectors, Inductive detectors, Optical detectors, Transducers, Transmitters, Control Valves, Actuators, Thermocouples and similar measuring devices
- Layout and Installation of Tubing and Piping Systems and joint boxes for troubleshooting
- Latest techniques of punching holes in panels without causing denting and disturbing other adjacent instruments

### Training

(Suggested but not mandatory)

### Minimum Job Entry Age

18 years

### Experience

In lieu of minimum qualification the incumbent should have minimum 24 months of relevant working experience in the similar field / function

### Applicable National Occupational Standards (NOS)

1. ISC/N1102: Carry out maintenance activities under the guidance and supervision of Technician Instrumentation
2. ISC/N1103: Periodically check measuring equipment for operation and ensure proper calibration
3. ISC/N0008: Use basic health and safety practices at the workplace
4. ISC/N0009: Works effectively with others

### Assessment Guidelines

1. Each Performance Criteria (PC) will be assigned marks proportional to its importance in NOS. SSC will also lay down proportion of marks for Theory and Skills Practical for each PC.
2. The assessment for the theory part will be based on knowledge bank of questions created by the SSC.
3. Individual assessment agencies will create unique question papers for theory part for each candidate at each examination/training center (as per assessment criteria below)
4. Individual assessment agencies will create unique evaluations for skill practical for every student at each examination/training center based on this criteria.
5. To pass the Qualification Pack, every trainee should score a minimum of 60% in every NOS.
6. In case of successfully passing only certain number of NOS’s, the trainee is eligible to take subsequent assessment on the balance NOS’s to pass the Qualification Pack.
PLACEMENT OPPORTUNITIES
EQUIPMENT LIST

Fitter-Electrical Assembly (ISC/Q1001)

1. Steel tape, 15 m length  x10
2. Plier insulated, 150 mm  x10
3. Screw driver, 100 mm  x10
4. Electrician connector, screw driver insulated handle thin stem, 100 mm  x10
5. Knife double bladed electrician  x10
6. Neon tester  x10
7. Hammer, cross peen with handle  x10
8. Spanner adjustable 150 mm, 300mm  x2
9. Hand drill machine  x1
10. Allen key  x1
11. Crimping tool  x2
12. Wire stripper 20 cm  x2
13. Hacksaw frame 200 mm 300 mm adjustable  x2
14. Pliers flat nose 150 mm  x2
15. Gauge, wire imperial  x2
16. Soldering iron 25 watt, 65 watt, 125 watt  x1
17. Multi meter (analog) 0 to 1000 m ohms, 2.5 to 500 w  x2
18. Digital multi meter  x5
19. A.C. Voltmeter M.I. 0 –500V A.C  x1
20. Ammeter MC 0-5 A, 0- 25 A  x1
21. Three phase transformer, shell type oil cooled with all mounting 3 kva, 415/240 V, 50 hz, (delta/star)  x10
Electrical Maintenance Department in Iron & Steel Industry

- Fitter - Electrical Assembly
- Fitter - Electronic Assembly
- Fitter - Instrumentation

C.E.O.

Executive Director (Works)

General Manager/HOD (Electrical)

Dy. General Manager (Electrical)

Asst. General Manager

Senior Manager

Dy. Manager/Manager

Assistant Manager

Junior Executive

Shift-in-charge

Supervisor/Chargeman

Senior Technician

Junior Technician

Trainee