





JOB ROLE OVERVIEW

Fitter Instrumentation (ISC/Q1102)

Role Description

Version

NSQF Level

Minimum Educational Qualifications

Maximum Educational Qualifications

Training
(Suggested but not mandatory)

Minimum Job Entry Age

Experience

1.0 3 10th standard (Science) Pass

 Hand/power Tools & metallurgy to understand strength of fixing and fixed devices

This job is all about installing, dismantling, removing, replacing a

pick-up unit / point of measurement and linking either directly

to the instrument or to the instrument panel. This also involves

associated parts under supervision of Technician Instrumentation.

range of components down to subassembly level right from

making suitable slot on panel and fixing instrument and its

- 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

18 years

ITI Pass

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/NOOO8:** Use basic health and safety practices at the workplace
- 4. ISC/NOOO9: Works effectively with others

Assessment Guidelines

- 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.
- 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 evaulations 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.

Development

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सत्यमव जयत MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP GOVERNMENT OF INDIA





PLACEMENT OPPORTUNITIES













STEEL AUTHORITY OF INDIA LIMITED























































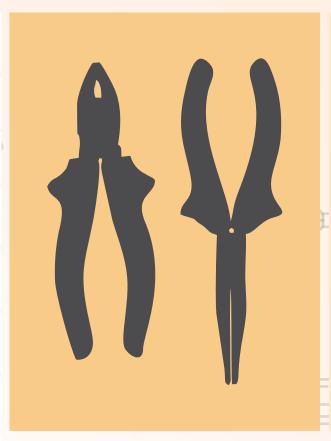




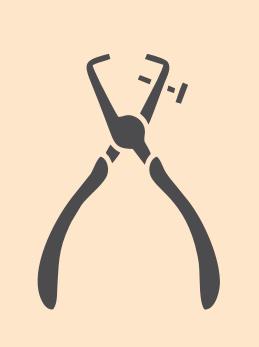
EQUIPMENT LIST

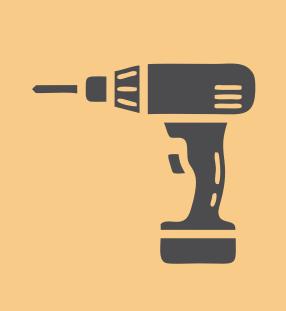
Fitter-Electrical Assembly (ISC/Q1001)

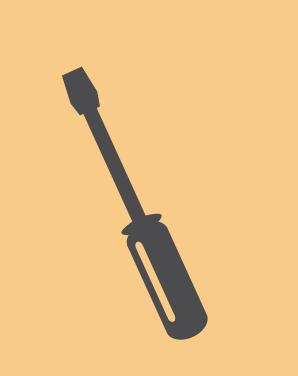
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1.	Steel tape, 15 m length	x10
2.	Plier insulated, 150 mm	x10
3.	Screw driver, 100 mm	x10
4.	Electrician connector, screw driver insulated handle thin stem, 100 mm	x10
5.	Knife double bladed electrician	x10
6.	Neon tester	x10
7.	Hammer, cross peen 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 50	0 w2
18.	Digital multi meter	x 5
19.	A.C. Voltmeter M.I. O -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

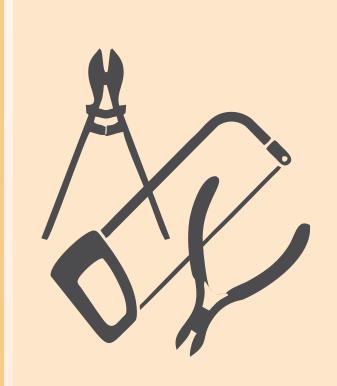


































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CAREER MAP FOR ELECTRICAL MAINTENANCE DEPARTMENT

Electrical Maintenance Department in Iron & Steel Industry

- Fitter Electrical Assembly
- Fitter Electronic Assembly
- Fitter Instrumentation

STEEL

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