# JOB ROLE OVERVIEW

## Fitter Electronic Assembly (ISC/Q1101)

<table>
<thead>
<tr>
<th>Role Description</th>
<th>Operations to assemble and wire up electronic panels/components and equipments and systems to mechanical equipment</th>
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</thead>
<tbody>
<tr>
<td><strong>Version</strong></td>
<td>1.0</td>
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<tr>
<td><strong>NSQF Level</strong></td>
<td>3</td>
</tr>
<tr>
<td><strong>Minimum Educational Qualifications</strong></td>
<td>12th standard (Science) / ITI Pass preferably Diploma - Electronics</td>
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<tr>
<td><strong>Maximum Educational Qualifications</strong></td>
<td><img src="image.png" alt="Image" /></td>
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</tbody>
</table>
| **Training**     | • Theoretical concepts on electronic panels and equipment handling  
|                  | • Trainings on operation of electronic panels/components and equipment                                           |
| **Minimum Job Entry Age** | 18 years                                                              |
| **Experience**   | In lieu of minimum qualification the incumbent should have minimum 12 months of relevant experience in the similar field/function. |

## Applicable National Occupational Standards (NOS)

1. ISC/N1101: Assemble and wire up electronic equipment and systems to mechanical equipment
2. ISC/N0008: Use basic health and safety practices at the workplace
3. ISC/N0009: Work 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

TATA STEEL
SAIL
STEEL AUTHORITY OF INDIA LIMITED
JINDAL STEEL & POWER
MDHANI
SAIL
VIZAG STEEL
Pride of Steel
NMDC
Sponge Iron Manufacturers Association
THE INSTITUTE OF INDIAN FOUNDRYMEN
IFAPA
The Indian Forge After Producers’ Association
TRF
TRF Limited
A TATA Enterprise
TVS
EUREKA FORBES
ESSAR STEEL
L&T Hydrocarbon
C&S electric
TEXMO INDUSTRIES
YAMAHA
WELSPUN
Godrej
Aarti
ALPINE
National Skill Development Corporation
Transforming the skill landscape
# Equipment List

**Fitter-Electrical Assembly (ISC/Q1001)**

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

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