JOB ROLE OVERVIEW

Iron & Steel - Machinist (ISC/Q0909)

This role is about understanding engineering drawings and preparing the equipment for fabrication activities

Version
1.0

NSQF Level
3

Class 12th Pass
ITI / Diploma Pass

Minimum Educational Qualifications
Maximum Educational Qualifications

Training
(Suggested but not mandatory)

Theoretical concepts, trainings on operation of machinery and the followings:
- Trades Safety: Getting Started and Working Safely with Chemicals
- Linear and Distance Measurement
- Introduction to Print Reading and knowledge in Tolerance and Symbols
- Interpreting Geometric Dimensioning and Tolerancing
- Bench Work and Quality Concepts: Tools and Applications

Minimum Job Entry Age
18 years

Experience

1-2 years’ experience in similar function
In lieu of minimum qualification the incumbent should have minimum 3-4 years of relevant work experience working as semi-skilled Machinist/Trainee

Applicable National Occupational Standards (NOS)
1. ISC/N0901: Understand design requirement and prepare
2. equipment
3. ISC/N0902: Perform fabrication activities
4. ISC/N0903: Perform post - fabrication activities
5. ISC/N0904: Perform maintenance activities
6. ISC/N1004: Carry out housekeeping
7. ISC/N1005: Carry out reporting and documentation
8. ISC/N1006: Carry out quality checks
9. ISC/N1007: Carry out problem identification and escalation
10. ISC/N0008: Use basic health and safety practices at the workplace
11. 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.
## Equipment List

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

<table>
<thead>
<tr>
<th>No.</th>
<th>Item Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Steel tape, 15 m length</td>
<td>x10</td>
</tr>
<tr>
<td>2.</td>
<td>Plier insulated, 150 mm</td>
<td>x10</td>
</tr>
<tr>
<td>3.</td>
<td>Screw driver, 100 mm</td>
<td>x10</td>
</tr>
<tr>
<td>4.</td>
<td>Electrician connector, screw driver insulated handle thin stem, 100 mm</td>
<td>x10</td>
</tr>
<tr>
<td>5.</td>
<td>Knife double bladed electrician</td>
<td>x10</td>
</tr>
<tr>
<td>6.</td>
<td>Neon tester</td>
<td>x10</td>
</tr>
<tr>
<td>7.</td>
<td>Hammer, cross peen with handle</td>
<td>x10</td>
</tr>
<tr>
<td>8.</td>
<td>Spanner adjustable 150 mm, 300mm</td>
<td>x2</td>
</tr>
<tr>
<td>9.</td>
<td>Hand drill machine</td>
<td>x1</td>
</tr>
<tr>
<td>10.</td>
<td>Allen key</td>
<td>x1</td>
</tr>
<tr>
<td>11.</td>
<td>Crimping tool</td>
<td>x2</td>
</tr>
<tr>
<td>12.</td>
<td>Wire stripper 20 cm</td>
<td>x2</td>
</tr>
<tr>
<td>13.</td>
<td>Hacksaw frame 200 mm 300 mm adjustable</td>
<td>x2</td>
</tr>
<tr>
<td>14.</td>
<td>Pliers flat nose 150 mm</td>
<td>x2</td>
</tr>
<tr>
<td>15.</td>
<td>Gauge, wire imperial</td>
<td>x2</td>
</tr>
<tr>
<td>16.</td>
<td>Soldering iron 25 watt, 65 watt, 125 watt</td>
<td>x1</td>
</tr>
<tr>
<td>17.</td>
<td>Multi meter (analog) 0 to 1000 m ohms, 2.5 to 500 w</td>
<td>x2</td>
</tr>
<tr>
<td>18.</td>
<td>Digital multi meter</td>
<td>x5</td>
</tr>
<tr>
<td>19.</td>
<td>A.C. Voltmeter M.I. 0 -500V A.C</td>
<td>x1</td>
</tr>
<tr>
<td>20.</td>
<td>Ammeter MC 0-5 A, 0- 25 A</td>
<td>x1</td>
</tr>
<tr>
<td>21.</td>
<td>Three phase transformer, shell type oil cooled with all mounting 3 kva, 415/240 V, 50 hz, (delta/star)</td>
<td>x10</td>
</tr>
</tbody>
</table>
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