



COURSE NAME: Fitter Fabrication

NSQF LEVEL: 2

REFERENCE ID: CSC/Q0303

ALIGNED TO: NCO-2004/7233.10, 7233.20

Brief Job Description:

It involves identifying metals, tools; carrying out fitting and fabrication operations like measuring, marking out, sawing, grinding, drilling, chiselling, threading, tapping, scraping, manual lapping and inspecting of components in order to fit a component as per specifications. It also involves basic oxy-fuel gas cutting and basic manual arc welding as per given instructions and under supervision.

Personal Attributes:

Basic communication, numerical and computational abilities. Openness to learning, ability to plan and organise own work and identify and solve problems in the course of working. Understanding the need to take initiative and manage self and one's work to improve efficiency and effectiveness.

Module 1 : Perform fitting operations on metal components using hand tools and manually operated machines

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| • Measuring & Marking Tools |
| • Cutting Tools & Hand tools |
| • Power Tools |
| • Mechanical Properties of Material |
| • Ferrous Metals |
| • Non-ferrous Metals |
| • Basics of Mechanical Drawing |
| • Welding Equipment's & Consumables |
| • Grinding Operation |
| • Personal Protective Equipment |
| • Basic of Computer |
| • Basic of Internet |
| • Story case study/ Based Brain Storming Session |



Module 2 : Perform simple manual cutting operations on carbon steels using oxyfuel gas

- Preparing for Gas Cutting operations
- Types of oxy fuel flame
- Herz pipe
- Type of Slender
- Working Safely
- Basic of MS Office
- Basic of E-mail Writing
- Group Discussion

Assessment for Module 2

Module 3 : Manually weld low carbon and low alloy steels in simple welding positions using Manual Metal Arc Welding / Shielded Metal Arc Welding

- Manually weld low carbon and low alloy steel in simple welding position
- MMAW on low carbon steel
- Emergencies, rescue & first-aid procedures
- Health & Safety
- Basic of MS word
- Basic of Listening Skill
- Interaction with SME
- Interaction with corporate

Assessment for Module 3



Module 4 : Use basic health and safety practices at the workplace

- Basic Health Safety Practices & Environmental Regulation at workplace
- Health & Safety at work place
- Fire Safety
- Workplace safety from fire
- Kaizen & 5S
- Basic of MS Excel
- Basic of con-call
- Conflict Management
- Interpersonal Skill

Assessment for Module 4

Module 5 : Work effectively with others

- Able to receive and pass information from and to authorised persons and seeking clarification from authorized persons where required.
- Able to communicate by avoiding use of abusive language; display respect to others.
- Respect others time by completing given task in time, avoiding gossip and avoid conflict.
- Basic of Power Point
- Basic of Video call
- Importance of Team
- Objection and Rejection Handling

Assessment for Module 5

Interaction with Subject Matter Expert

Certification