1. Name of the Module

: BASIC WELDING (Gas)

2. Sector

FABRICATION

3. Code

FAB101

4. Entry Qualification

: Minimum 8th std. and 14 years above

5. Terminal Competency

After completion of this training, the participants

would be able to

a. join metals by oxy-fuel gas welding, brazing process

b. repair components/parts used in household & industrial appliances

6.Duration

: 120 Hrs.

7.Contents

Practical Competencies

Underpinning Knowledge (Theory

- Use of protective safety devices on shop floor
- Safe working practice to be observed during welding
- Identification of tools and accessories used for Gas welding
- Setting up of Gas Welding Plant
- Lighting and adjustment of Oxy-Acetylene flame & operation
- Beading practice on MS sheet with and without filler rod
- Produce oxy-acetylene gas welded joints in mild steel sheets
 - a. Edge joint
 - b. Square butt jointc. Fillet joint
- Practice brazing with Oxy-Acetylene flame on MS Sheets
- Practice Tube joint by Oxy-Acetylene welding / Brazing
- Identification of defects by Visual inspection & correction of defects

- Reading of fabrication drawing.
- Introduction to welding
- Safety precautions.
- Types of welding processes and application
- Nomenclature of Fillet and groove; welds
- Welding terms, symbols and definitions
- Description operating procedures of oxy-Acetylene welding .
- Description and safe operating procedures of oxy-acetylene regulators
- Description & maintenance of oxy: Acetylene welding blow pipes
- Types of Oxy-Acetylene flames and their uses.
- Filler rods and fluxes for brazing
- Welding & Brazing Procedure and technique
- Welding defects causes and remedy
- Distortion and methods of control
- Inspection & testing of weldments

8. Tools & Equipment: