

Module - 1

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)
<ul style="list-style-type: none"> • 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 <ol style="list-style-type: none"> a. Edge joint b. Square butt joint c. 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 	<ul style="list-style-type: none"> • 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: