



Glass melting: FUSV

➤ **Purpose of the training**

Give general knowledge about the glass material and its process of melting and conditioning in the glass furnace, through raw materials.

➤ **Relevant staff**

Anyone who is concerned by the melting and conditioning of glass, from the composition workshop to the feeder along with the furnace and the working tank not to mention related energy, environmental and quality issues: supplier of raw materials, energy, refractories, glass staff who is in charge of the composition, melting, new build and environment.

➤ **Program** (adapted to the needs of the company)

- The glass material

Glassy state, role of the elements, coloring, main families and chemical composition of silicate glasses

- Properties of glass

Viscosity, density, energy transmission

- Raw material

Description and criteria for the choice of raw materials (chemical analysis, impurities, particle size, humidity)

- Recycling glass
- Composition workshop

Role, description, functioning of composition workshop

- Melting glass

Melting, refining, importance of redox

- Glass furnaces

Description of the different types of continuous furnaces, performance criteria, furnace operating

- Refractory materials

Presentation, characteristics and use of electro-cast refractory and sintered refractory

- Furnace heating

Combustion, electric boosting, thermal heat balance of furnaces

- Environmental legislation regarding emissions from glass furnaces
- Conducting and monitoring furnaces

Principle of operating and monitoring furnaces, indicators (pressure, glass level, temperature), bath cover, convection currents

- Working tanks and feeders

Role, description, operating principles

➤ **Duration of training**

From 3 to 5 days depending on the desired program

➤ **Place of training**

At your choice (your site or elsewhere)

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