



Glass annealing and strain measurement: RECV

➤ **Purpose of the training**

Understanding the causes of stress appearance in the glass necessitating annealing and acquiring the necessary knowledge for the proper realization and monitoring.

➤ **Relevant staff**

All people working with hot glass and confronted with its cooling:

- Manufacturing flat and hollow glass production staff
- Technical service, engineering and quality staff
- Staff using bending, thermo-forming, fusing
- Decorating and enameling workshops staff
- Manufacturing companies: tube, syringe, vial, lighting

➤ **Program** (adapt to the needs of the trainees)

- Knowledge of glass
- Properties of glass
- Theory of glass annealing
- Temporary and permanent strain
- Principle of annealing
- Determining theoretical curves of annealing
- Annealing
 - In a closed chamber (furnace)
 - In an annealing lehr (hollow glass, flat glass)
- Strain measurement
- Accidental birefringence of glasses
- Fundamental photo-elasticity laws
- Measuring strain using a polariscope
 - Hollow glass annealing rating (linear polarization)
 - Measurement of flat glass annealing (circular polarization)
 - Measuring surface stress through GASP

➤ **Duration of the training**

From 1 to 2 days depending on the desired program

➤ **Place of training**

At your site or at Espacesréunion 43 rue de Dunkerque 75010 Paris (300m from Gare du Nord station)

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