

# Glass Melting

## Introductory training

duration  
2 days

date  
2 – 3 March 2021

location  
Online

This training provides an eminent overview of the key process steps involved in converting raw materials into a glass melt ready to be delivered to the forming process. The general description of glass production enables trainees who desire generic knowledge of glass melting to understand the challenges of glass production.

### Contents

- Raw materials, recycling and carry-over
- Melting and kinetics
- Redox and heat transfer
- Fining and foaming
- Furnace types and design
- Combustion
- Evaporation
- Refractories
- Energy efficiency
- Emission

### Training methods

We offer a blended learning approach by mixing e-learning, lectures, open discussions, exercises, and case studies in teams or individually. The number of participants per course is between 10 and 25 to maximize your learning experience. Participants always receive the presentations and a training certificate.

### Level of seniority

This training is meant for novice to advanced beginners who would like to improve their understanding and apply the knowledge during practical cases.

### Investment

Training costs € 1,950 per participant, € 1,800 for each extra participant per company. Price excludes tax and duties.

### After the training

- You have a clear overview how raw materials affect melting, energy consumption, glass quality and furnace lifetime.
- You understand the link between energy consumption, CO<sub>2</sub> emission, with fuel source, furnace design and operation.
- You know how emissions can be minimized by primary and secondary measures.
- You are able to pinpoint critical furnace conditions and process settings that affect furnace lifetime.
- You can define industrial measures to improve on glass quality and yield.

We do our best to ensure that the events take place. However, Celsian reserves the right to cancel up to two weeks prior to the training, proposing new dates or refunds. Cancellation fees apply from 4 weeks before the event: more than 4 weeks before training free of charge, less than 1 week before training 50%; otherwise full price. In case of an unexpected event, we are happy to look for a voucher solution for future courses.



We welcome your questions by e-mail: [academy@celsian.nl](mailto:academy@celsian.nl) Register on [www.celsian.nl](http://www.celsian.nl)

Online access to this training can be offered and the training may be fully given online.