

# Electric Systems for Glass Melting

## Introductory Training

duration  
2 days

date  
September 6 - 7

location  
Eindhoven and/or Online

Electricity will play a major role in the ongoing energy transition to reduce CO<sub>2</sub> emissions. Although electric melting of glass is an old technology, many aspects have to be considered to create an efficient system that is suitable for each specific glass production.

This training focuses on supply and hardware, from the electrical grid down to the electrodes and beyond, to provide you with a pragmatic level of understanding of the whole system.

### Contents

- Purpose of electrical boosting, from sustainability to flexibility
- Melting zone, barrier and throat boosting
- Electrode material, types, holder and cooling systems
- Positioning of electrodes
- Selecting the correct type of transformer, cables and busbars
- Granularity, efficiency and types of control systems

### 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 8 and 20 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 **€ 1950** per participant. When onsite, price includes 2 lunches and 1 dinner. It excludes tax and duties. The 6th participant from the same company can join for free.

### After the training

- You understand the many advantages of electrical boosting.
- You have a clear overview of what needs to be considered to increase the electric share in your energy mix.
- You know how to choose the proper electrical system for your specific production, from the choice of the right transformer to the choice of the electrode density and control system.
- You know how to prevent and follow the electrode corrosion and how to shift the electrodes.

Cancellation fees apply. 1 week before training 50%; no show, full price. In case of an unexpected event, we are happy to look for rescheduling or voucher options. CelSian reserves the right to cancel up to two weeks prior to the training, proposing new dates or refunds. Are you registering as a group? You are entitled to a 15% discount on all courses: for 5 registrations, the 6th participant can join for free.



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.