Introduction to Glass Defect Diagnosis

Duration : 1 Day  
Location : Eindhoven, The Netherlands

You clearly understand that quality and continuous improvement are vital to the success of your glass production. Occurrence of Glass Defects causes financial loss so you want to learn how to diagnose and solve the problems effectively and you particularly want to avoid problems further along the supply chain.

Results

• You can carry out bubble source diagnosis.  
• You have hands-on experience of solid inclusion analysis.  
• You have an overview of commonly occurring glass defects.  
• You know the best approaches to solving bubble reject problems.  
• You understand the various techniques available to analyse defects.  
• You have knowledge of available tools to help diagnose complicated problems (e.g. CFD modelling, laboratory studies).

Contents

• Characteristics of commonly occurring solid inclusions  
• Exercises in identification of solid inclusions  
• Cullet recycling and its impact on glass quality & defects  
• Devitrification  
• Causes and solution of seed and bubble reject  
• Exercises in bubble diagnosis

Audience

Novice to advanced beginners who would like to improve their understanding and apply the knowledge during practical cases. Employees from the glass industry and suppliers:  
• Production mostly in batch, furnace and melting,  
• Quality Assurance,  
• Research and development,  
• Furnace designers and builders  
• Refractory & raw materials suppliers.  
• End-users of glass products.

Training methods

Blended learning approach by mixing e-learning, lectures, open discussions and questions, exercises and case studies in teams or individually.

Participants will receive the presentations and a training certificate. To ensure emulation and focus, number of participants is between 10 and 25.

Investment

Training costs 950€ per participant. Price includes lunch and refreshments. It excludes accommodation, travelling, tax and duties.

Cancellation fees:

<table>
<thead>
<tr>
<th>Time before training</th>
<th>Fee</th>
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<tbody>
<tr>
<td>4 weeks before training</td>
<td>Free of charge</td>
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<tr>
<td>&lt; 2 weeks before training</td>
<td>50% price</td>
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<tr>
<td>&lt; 1 day before training</td>
<td>75% price</td>
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<tr>
<td>No show</td>
<td>Full price</td>
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CelSian reserves the right to cancel up to two weeks prior to the training, proposing new dates or refunds.

Contact & Registration

Online registration only  
https://www.celsian.nl/academy/

Any questions?

✉ Write to us academy@celsian.nl  
📞 Call us +31 40 249 0100