

■ Objective

This training provides basic knowledge of the industrial applications of electroheat. The specific features of the various techniques are explained from a short theoretical introduction. Subsequently, the technology is described. It is shown how the use of electroheat-techniques may improve both the productivity and quality of the industrial process. The energy efficiency of these techniques is also considered in more detail in the context of current environmental concerns.

■ Target group

Technical and energy managers, process engineers.

■ Duration

1/2 day with a visit to the laboratory infrastructure.

■ Content of the training

- Infrared heating: physical principle, technology, industrial applications, position in relation to other electroheat techniques, energy efficiency.
- High frequency heating: physical principle, technology, industrial applications, position in relation to other electroheat techniques, energy efficiency.
- Microwave heating: physical principle, technology, industrial applications, position in relation to other electroheat techniques, energy efficiency.
- Induction heating: physical principle, technology, industrial applications, position in relation to other electroheat techniques, energy efficiency.
- Practical examples.

■ Specific aspects

The training may be given anywhere. However a training day at Laborelec in Linkebeek allows a visit to the laboratory infrastructure with a demonstration of the techniques discussed.

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