



**The right skills
means higher quality**

That your employees have the correct level of expertise is a requirement for ensuring the heat treatment process functions effectively and produces the expected results. It is just as important that production is optimized in a technical sense. Today's high quality and productivity requirements leave no margin for error, which is why competent operators and production technology engineers are very important pieces of the puzzle.

**Customer-adapted
training program**

Here at FERRONOVA® process support we offer courses to enhance your employees' skills. The courses are tailored to suit the specific requirements of you and your company. They can easily be implemented on-site in your own production facility. It provides many employees with the opportunity to participate and is particularly effective as all practical exercises can be carried out using familiar equipment. The courses are aimed at heat treatment expertise and gases safety information, but can be supplemented, as required, with teaching material and furnace provision expertise. We can offer training for a minimum of a half day and upwards. It is your requirements that guide the content and scope of the training. For further contact information, see reverse.

**Skills development
for all**

- Furnace operators
- Supervisor
- Production technology engineers
- Designers
- Operation and maintenance personnel
- Instrument engineers
- Process engineers
- Product development engineers

**Examples of training
within FERRONOVA®
process support**

- **Gases knowledge.** The most common gases in the industry and their physical properties.
- **Gases safety.** Safety aspects for various gases, primarily fire, coolant, and suffocation risks.
- **Safety in heat treatment.** Safety aspects concerning personal safety, furnaces, purging, gases, atmospheres, and risk-prevention actions. Standardized safety requirements for industrial furnaces SS-EN 746.
- **Teaching material basis.** Basic metallurgical terminology and connection.
- **Furnaces and furnace equipment.** Different types of furnaces, distribution systems for gases, control, and regulation.
- **Heat treatment methods.** Thermal and thermo-chemical methods.
- **Furnace atmospheres.** Case hardening and carbonitriding, neutral hardening and neutral annealing, nitriding, and nitrocarburizing.
- **Microscopy.** Structure and operation.
- **Material quality.** Primarily general construction steel, free cutting steel, high speed steel, hardening & tempering steel, and carburizing steel.
- **Measuring methods and terminology.** Temperature, pressure, gas analysis, flow, oxygen probes, etc.

All training includes work assignments, course documentation, and qualification.



Teaching material is an element that can be offered in our training.



Our customer-adapted training can be carried out on-site at our customers' premises.

FERRONOVA® process support
– partner for the metallurgy industry.

Visit our website: www.ferronova.se

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