



# M.ACADEMY – TRAINING

## ELECTRIC ARC FURNACE AND LADLE FURNACE DESIGN



### COURSE INFORMATION

<b>TITLE</b>	Electric arc furnace and ladle furnace design
<b>DATE</b>	May 26-27, 2020 October 6-7, 2020
<b>LOCATION</b>	Legelshurst, Germany
<b>TUITION</b>	€ 1700 / Group rates and site option available
<b>TYPE</b>	Classroom training
<b>LANGUAGE</b>	English
<b>TRAINER</b>	Dr. Jens Apfel   Head of Technology and Innovation   Electric Steelmaking, Primetals Technologies Germany



### COURSE DESCRIPTION

The course aims to show plant operators and maintenance team the basic conceptual design of an electric arc furnace (EAF) and the ladle furnace (LF) equipment. The design of the furnace transformer and electrode regulation system is decisive for a good performance of the equipment and will be demonstrated in this course.

The main components of the furnaces will be analyzed and the basic concepts of the mechanical design will be discussed. Following the demonstration of the main components design, the furnace performances key figures are shown.

The electrical/chemical energy balance will be demonstrated and analyzed. Plant optimization figures will be shown.

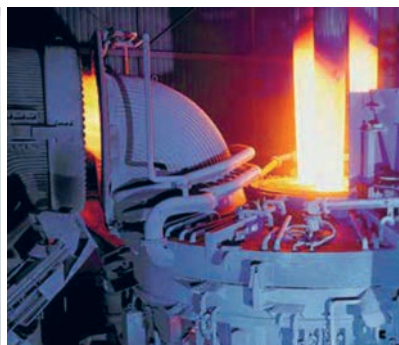
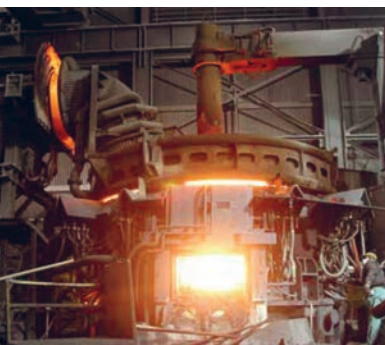


### COURSE OUTLINE

- Electrical energy: primary and secondary lines
- Chemical energy in arc furnaces
- EAF components
- LF components
- Furnace performance definition
- Process key figure definition and calculation
- Maintenance of electrical arc furnace and/or ladle furnace

### WHO SHOULD ATTEND

- Productions manager
- Plant manager
- Process engineers
- Metallurgists
- Process operators
- Maintenance team
- Logistics expert



## PROGRAM DETAILS

### DAY ONE

- 08:30-10:00** Introduction to electrical steel making
- 11:00-12:30** Electrical energy: primary and secondary lines.
- 13:30-15:00** Chemical energy in arc furnaces.
- 15:30-17:00** EAF components.

### DAY TWO

- 08:30-10:00** LF components.
- 11:00-12:30** Furnaces performances definition.
- 13:30-15:00** Process key figure definition and calculation.
- 15:30-17:00** Maintenance of electrical arc furnace and/or ladle furnace.



## ORGANIZATIONAL DETAILS

- TRAVEL** With the registration you will receive proposals for hotels nearby
- VENUE** Primetals Technologies, Legelshurst, Germany



## WHAT IS M.ACADEMY?

### LEARN, IMPROVE, SHARE.

m.academy offers courses (classroom training, practical training, process training, individual training) tailored to each area of your plant and designed to help your employees reach their full potential. Find the right package and leave the rest to Primetals Technologies. In today's globalized and interconnected world, knowledge is power and having the right know-how gives you a decisive advantage over your competition, locally and globally.

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## FOR FUTURE INFORMATION CONTACT

### Primetals Technologies Germany

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## CANCELLATION POLICY

Unless otherwise specified in the Commercial Offer, the Customer is entitled to cancel in writing at no cost up to 40 days prior to start of the training course. In the event of cancellation by the Customer up to 30 days prior to start of the training course, Primetals Technologies is entitled to charge 50% of the course fee. In the event of cancellation by the Customer up to 14 days prior to start of the training course, Primetals Technologies is entitled to charge 80% of the course fee. If the Customer gives notice of cancellation less than 14 days prior to start of the training course, or if the Customer fails to attend the course without having first canceled, Primetals Technologies is entitled to charge the full course fee.