



# M.ACADEMY - TRAINING

## ELECTRIC STEELMAKING AND RAW MATERIAL LOGISTICS (MINI MILL)



### COURSE INFORMATION

<b>TITLE</b>	Electric steelmaking and raw material logistics (Mini Mill)
<b>DATE</b>	On demand
<b>LOCATION</b>	Legelshurst, Germany
<b>TUITION</b>	€ 850 / 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

This course makes use of the vast plant-design expertise that Primetals Technologies has built up over several decades and aims to convey the material flow in a melt shop, with a focus on the raw material logistics and the setup procedures typically employed in mini mills.

Topics include scrap yard design, raw material position layout, bunker sizes, and logistics. A variety of material characteristics will be evaluated during the course. Different kinds of furnace material charges will be analyzed, as well as the way the material is transported. Furthermore, you will learn how to calculate and verify plant productivity.

The course will also cover the basics of how a mini mill setup works. Aspects such as measuring plant productivity and correctly defining the quality of the produced steel will be discussed, as will the combination of different plant aggregates and viable plant layouts. A session looking at how to conduct economic evaluations concludes the course.



### COURSE OUTLINE

- Introduction to EAF shop steelmaking
- Material flow
- Raw material characteristics
- Scrapyard layout
- Material flow logistics
- Mini Mill production: layout
- Mini Mill plant units
- Evaluation of profitability and productivity

### WHO SHOULD ATTEND

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



### PROGRAM DETAILS

- 08:30-10:00** Introduction to melt shop steel making  
Material flow
- 11:00-12:30** Raw material  
Scrap yard layout
- 13:30-15:00** Material flow logistic  
Mini Mill set up: layout
- 15:30-17:00** Mini Mill plant units  
Evaluation of economics and productivity



### 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.

[primetals.com/macademy](https://primetals.com/macademy)



### FOR FUTURE INFORMATION CONTACT

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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.