

Hot Rolling of Long Products 2019

Two Working Days 14th & 15th March 2019, in Madrid (Spain)

“Practical knowledge to use in your company”

Course Schedule

Day 14th March 2019:

9:00 – 10:00 – General Iron & Steel sector overview

- Productions, Capacities, Prices and trends.

10:00 – 11:30 – Visión metalúrgica del proceso de laminación de acero en caliente

- Steel structure and transformations
- Metallurgical temperatures and the rolling mill
- Grain structure and distribution

11:30 – 12:00 – Coffee Break (at the venue, included in price)

12:00 – 13:30 - Metallurgical overview of the hot steel rolling process (cont)

- Chemical composition and alloying elements
- Metallurgical Strategies and chemical composition
- Steel composition and final steel quality

13:30 – 14:30 – Lunch (at the venue, included in price)

14:30 – 16:30 - Metallurgical overview of the hot steel rolling process (cont)

- Thermomechanical treatments
- Metallurgical prediction

16:30 – 17:00 – Coffee Break (at the venue, included in price)

17:00 – 18:00 – Roll Pass Design

- Constant volume and material flow

- Pass filling and not filling
- Rolling conditions

Day 15th March 2019:

9:00 – 11:00 – Roll Pass Design (cont)

- Types of rolls
- Plastic yield stress and influencing factors
- Temperature, profiles and round
- Roll groove dimensions
- [New! ATEC+ID system – how to go from theory to a practical system](#)

11:00 – 11:30 – **Coffee Break** (at the venue, included in price)

11:30 – 14:00 – Roll Pass Design (cont)

- Force, Moment, Power & Motors
- Roll Pass design for Profiles
- Roll Pass design for angle
- Roll Pass design for rounds
- Initial sections
- [New! ATEC+ID system – how to go from theory to a practical system](#)

13:30 – 14:30 – **Lunch** (at the venue, included in price)

14:30 – 15:30 – Roll Pass Design (cont)

- Rolling defects

15:30 – 16:30 – Rolling mill productivity and efficiency

- Lubrication

16:30 – 16:45 – **Coffee Break** (at the venue, included in price)

16:45 – 18:00 – Rolling mill productivity and efficiency

- Reheating furnace, types and strategy

- Rolling mill production capacity
- Initial sections definition
- Layout influence in quality
- Finishing mill
 - Cooling
 - Cutting
 - Straightening
 - Stacking & Labelling
- Quality certification systems
- Quality certification system and information to customers, migration to ISO 9001:2015 QMS.
- **Ideas interchange and end of course**

End of venue and course, delivery of attendance certificates.

Location and hotel

This training course will take place in Madrid at a hotel to be defined in a few days. To register for the course, please fill the 'Registration form' and send it to info@atecid.com, so we can book your seat as soon as possible, or send a message from our website "contact" section.