

Hot Rolling of Long Products 2021

Online / e-Learning on our platform including 3 live sessions – videoconference or virtual classroom

“Practical knowledge to use in your company”

Course Schedule

Starts on the 3rd May 2021 and ends the 5th July 2021

Module 1: General Iron & Steel sector general vision and hot rolling processes

- Productions, Capacities, Prices and trends.
- Hot rolling processes, general vision

Module 2: Metallurgical Vision of the Steel Hot Rolling Process

- Steel structure and transformations
- Metallurgical temperatures and the rolling mill
- Grain structure and distribution
- Chemical composition and alloying elements
- Metallurgical Strategies and chemical composition
- Steel composition and final steel quality
- Tutorship 1

Module 3: Roll Pass Design (grooves and passes)

- Constant volume and material flow
- Pass filling and not filling
- Rolling conditions
- Start of the rolling case of flat passes and bar sections (cases of theory-practice application will be presented constantly throughout the course)
- Types of rolls
- Plastic yield stress and influencing factors

- Temperature, profiles and round
- Roll groove dimensions
- Workshop – Product trace development for bar, from billet
- Force, Moment, Power & Motors
- Roll Pass design for Profiles
- Roll Pass design for bar
- Initial sections, number of stands and passes
- Rolling Defects and how to avoid them
- [Tutorship 2](#)

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
- [Tutor 3: Interchange of ideas and end of the course](#)

Throughout the course, there will be access to platform forums and three virtual classroom sessions. The virtual classroom sessions will have preset times and dates, so that the student can plan and participate in the exchange and interaction with the training tutor, as well as with other participants in the course.

e-LEARNING – ONLINE TRAINING

This type of course is called Online Training, and it includes both content for online training and virtual classroom sessions. To register, please send us a message at info@atecid.com, or use our [contact web page](#), so we can reserve a place for you.