

Starting with THERCAST® Continuous casting

With THERCAST[®], simulate how the metal evolves in a casting installation from the mold to exiting secondary cooling!

Covering three days, this course will be your first approach to THERCAST[®] software for continuous casting applications.

The first day lets you understand all of the data setup phases with special attention devoted to building the casting machine. The second day will highlight the different kinds of computations as well as how to analyze the main results.

Lastly, a number of key functions will be covered like identifying internal defects, predicting segregation, using TTT diagrams, point tracking and customizing the working environment.

LEVEL

Beginner

PREREQUISITES

There is no prior requirement for this course.

GOALS

- Data setup for continuous casting
- Launching a single computation and/or a computation sequence
- Analyzing simulation results
- Using the continuous casting machine definition interface
- Studying the entire process (primary and secondary cooling)
- Identifying and interpreting casting faults (bulging, cracks, etc.)
- Studying variations in physical values (temperature, pressure, etc.) at any point in the cast product (slab, bloom)
- Customizing your working environment

TRAINING	DURATION	PRICE EXCL. TAX	PARTICIPANTS
In-company	3 days	3900 € per training	1 to 3 people

Contact us to arrange the date and place of the training.

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DAY 1 > 8.30 a.m. to 12.00 p.m. & 1.30 p.m. to 5.00 p.m.

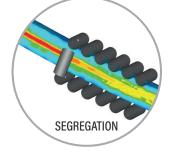
 Working environment presentation Project concept with case and stage management Full description of the backstage
 Creation of a material from its nominal composition Managing the unit system Displaying physical properties
 Generation data for computations with segregations Visualizing elements concentration micro and macro-scale segregation Introduction to micro-segregation models
 Building continuous casting machine: Surface and volume meshing Managing simulation check parameters Reviewing heat and friction exchanges between ranges Reviewing fault prediction criteria

DAY 2 > 8.30 a.m. to 12.00 p.m. & 1.30 p.m. to 5.00 p.m.

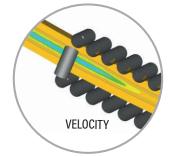
Quick launch Procedure for restarting computations
 Displaying scalar results: temperature, liquid fraction, material front, etc. Display options: iso-volumes, cutting planes, curves, scales, smoothed or continuous representations, etc. Identification of sensitive areas (shrinkage, porosity, etc.) Combined analyses: multi-cases, multi-windows options Exploitation of results: animations, VTFx exports

DAY 3 > 8.30 a.m. to 12.00 p.m. & 1.30 p.m. to 5.00 p.m.

 Remeshing TTT and TRC diagram Customizing environment: materials, heat exchange, friction, etc.



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