

Starting with THERCAST® Foundry processes

THERCAST® provides valuable support in creating the best design for your castings regardless of your technologies.

THERCAST® has a template dedicated to sand casting, shell casting, low-pressure casting, high-pressure casting, etc.

THERCAST® allows you to simulate your foundry processes in a predictive way. On the first day of this training course, you will learn how to configure and launch a project according to the given foundry technique. Analyzing results will

be covered in order to study the full process, physical variations and defects. During the second day, advanced functions such as selfradiation and heat cycling will be presented.

LEVEL



PREREQUISITES

There is no prior requirement for this course.

GOALS

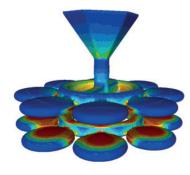
- Data setup for continuous casting
- · Launching computation and/or a computation sequence
- Analyzing simulation results
- Studying full process (filling, cooling)
- Studying physical value variations (temperature, liquid fraction, etc.)
- Identifying and interpreting casting defects (shrinkage, porosity, etc.)
- Customizing your working environment

TRAINING	DURATION	PRICE EXCL. TAX	PARTICIPANTS
In-company	2 days	2600 € per training	1 to 3 people

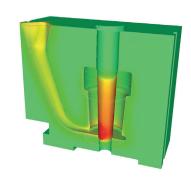
Contact us to arrange the date and place of the training.

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
Generation data for computations with segregations Visualizing elements concentration micro and macro-scale segregation Introduction to micro-segregation models
Quick launch Procedure for restarting computations
 Displaying scalar results: temperature, liquid fraction, etc. Display options: iso-volumes, cutting planes, curve patterns Identification of sensitive areas (shrinkage, porosity, etc.) Combined analyses: multi-cases, multi-windows options Exploitation of results: animations, VTFx exports



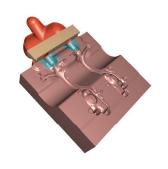
Self-radiation during casting



Casting of a foundry part

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

Industrial case	- Data setup, starting computation and results analysis
	Pre- and post-processed sensors Heat cycling with pressure casting application Complex movements of objects with pressure casting and tilted casting application Self-radiation between different domains
	Creation of a solid shell with generation of an extra thickness from the initial surface Defining of a surface and/or volume shell



Tilted casting