TRANSVALOR A NEW GENERATION SIMULATION EXPERIENCE

THERCAST®

NEW

Mastering the software

After this training you will have a deeper understanding of THERCAST®, and you will also be able to comfortably build advanced models that gives meaningful results.

This training is for those that want to use THERCAST® at its full potential. We take our time to explain how THERCAST® works in detail, not only the fundamental theory, but also the thought process to build advanced models and how to interpret the results.

LEVEL

Advanced

PREREQUISITES

A first experience with THERCAST® software is required.

GOALS

- **Overview of main multi-physics equations and algorithms**
- **Performing your data setup in line with the recommended workflow**
- **Analyze and compare case studies with different configurations**
- **Understanding and analyzing the results**

OTHER RECOMMENDED COURSES

- New functionalities of THERCAST® NxT 3.0

TRAINING	DURATION	PRICE EXCL. TAX	PARTICIPANTS
In-company	2 days	2800 € 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.

Introduction	· Presentation of Transvalor · Course goals
Multi-physics (Theory)	· Thermal · Thermo-Mechanical · Macrosegregation · Boundary Conditions · Liquid, Solid and Solidifications constitutive equations · Turbulent Model
Material Data Tool	· Reading the data · Minimum input required · Macrosegregation - Microstructure and Microsegregation - Heterogeneous liquid flow · Import data from a JMatPro file
Macrosegregation Case Study	· Presentation of case study · Analysis of results - Enrichment influence - Visualization of scalars - Synchronized multi-window

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

Meshing	· Mesh Repair · Breaking Elongated Elements Technique · Void Meshing · Mesh adaptation - Algorithm - Visual Examples - Tips and Tricks
Advanced Setup data options	· Inlet · Filter · Surface Tension · Porous Mold · Chained Simulations
Advanced Calculation Models	· Radiation · CAFE Method
Advanced results analysis options	· Sensors, Inclusions, Samples and Bubbles · Storage and Timestep · Synchronized multi-window animation · Improved readability · Custom actions
Conclusion	· Questions and course assessment