



Automatic Optimization

You need to optimize your process? Discover the solutions for identifying an ideal billet for complete and flawless filling or a tooling design that minimizes stress. No more long and boring trial plans. Choose automatic optimization!

THERCAST® automatic optimization is an extremely effective tool. Thanks to its genetic algorithm, you can automatically vary an entire range of process parameters (billet dimensions, tool shapes, billet positioning, etc.). This way you will be able to identify

the best conditions for optimally forming your part. In addition, you will study parameter identification techniques.

LEVEL



Advanced

PREREQUISITES



A good grounding in the use of THERCAST® is required. A perfect knowledge of the process is essential to determine what you want to optimize and how. You need to know the chaining and transitions concepts.

GOALS



- **Understanding optimization concepts and terms: genetic algorithm (individuals and generations), minimizable, constraint and parametered action**
- **Optimizing industrial processes**



TRAINING	DURATION	PRICE EXCL. TAX	PARTICIPANTS
In-company	1.5 days	€2400 per training	1 to 3 people

DAY 1 > 8.30 a.m. to 12.00 p.m. & 2.00 p.m. to 5.00 p.m.

Introduction	<ul style="list-style-type: none"> • Presentation of Transvalor • Course goals
General concepts	<ul style="list-style-type: none"> • Automatic optimization concept • Individuals and generation notions • Definition of a minimizable • Definition of a constraint • Definition of configured actions
Permeability identification of a filter	<ul style="list-style-type: none"> • Setup definition • Definition of minimizable, constraint and parametered action • Defining number of generations and individuals • Launching computation in parallel mode • Analysis of an Individual • Classifying the best individuals • Creating a new case from an optimal individual

DAY 2 > 8.30 a.m. to 12.00 p.m.

Identification of Heat transfer Coefficient	<ul style="list-style-type: none"> • Setup definition • Definition of minimizable, constraint and parametered action • Defining number of generations and individuals • Launching computation in parallel mode • Analyzing the Cost Function curve • Observing the influence of parameters
Conclusions	<ul style="list-style-type: none"> • Questions and course assessment

