SIMHEAT®

NEW

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!

SIMHEAT® 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 treat your part. In addition, you will study techniques that allow you to reverse engineer certain physical parameters of your process.

LEVEL

Advanced

PREREQUISITES

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

GOALS

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

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 5.30 p.m.

Introduction	▪ Presentation of Transvalor ▪ Course goals
General concepts	▪ Automatic optimization ▪ Individuals and generation ▪ Definition of a minimizable ▪ Definition of a constraint ▪ Definition of configured actions
Determining rheology by reverse engineering	▪ Defining the simulation ▪ Setup ▪ Interpreting the results

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

Determining a heat transfer coefficent	▪ Defining the case ▪ Setup ▪ Interpreting the results
Innovation	▪ Optimization with discrete values ▪ Optimization with Design Of Experiment
Conclusions	▪ Questions and course assessment