



Mastering the software

Increasing the scope of your knowledge of FORGE® and especially taking on board the latest functionalities, is what you are looking for!

After this course you will have developed in-depth expertise on the newly redesigned graphic interface, one that speeds up data setup and result analysis. This will bring you enhanced knowledge of the very latest solver functions. You will discover how

the multiproject mode works, sensors and marking techniques as well as how to customize the data stores. Regarding computing, emphasis will be placed on features like 'bi-mesh' in open die forging, anisotropic remeshing and heat treatment processes.

LEVEL

Intermediate - Users looking for support when moving to the 'NxT' version and who wish to learn its every functionalities.

PREREQUISITES

A first experience with FORGE® software is required.

GOALS

- Performing your data setup in line with the new 'workflow' set-out by the new graphic user interface
- · Launching 'step by step' or 'entire process' computation
- · Understanding and analyzing the results
- Customizing your working environment

OTHER RECOMMENDED COURSES

- FORGE® Automatic optimization
- FORGE® Heat treatment of steel and aluminum
- FORGE® Die analysis

DATES	
oruary 16-17 June	20-21 October
PRICE EXCL. TAX	PARTICIPANTS
1400€ per person	3 to 8 people
2600€ per training	1 to 3 people
	PRICE EXCL. TAX 1400€ per person

Optional: Transvalor Qualification exam: 200€/person. More details page 9.

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

Transvalor presentation Introduction · Course goals Process, case, stage and store concepts - Importing geometries, mesh quality, local and global surface repairs Mesh parameters: advanced options, mirror, surface export Object transformation: offset, flipping, gravity adjustment Data setup - Flow stress data: stress curves in tabulated format, importing JMatPro files · Local definition of friction or heat transfers · Advanced definition of press kinematics: press definition for rolling, floating die, stiffness - Checking data with 'Setup Status' Launching · Launching a stage or a complete case computation - Optimum number of cores for a simulation · Identification of usual forging defects: underfill, folds, cracks **Analyzing** Curve patterns: forces and stresses results · Comparing projects using the multi-project view tool **Advanced** · Sensors: point tracking and fault identification using reverse analysis **funtionalities** - Marking: monitoring the central area and the sheared surface · Customize data stores and setup **Customizing the** Create your own process or setup stage environment · Familiarization with the store - Recording macros to automate setup







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

Managing time increments Remeshing and mesh adaptation techniques **Numerical** · Auto-adaptive anisotropic remeshing aspects · Analytical and smoothed tools - Transition: forming in a multiple cavity mold - Implementation: reducer rolling, cross rolling, bending Self-contact, gas and lubricant trapping Multi-pass file (MPFx) Bi-mesh technique **Advanced** Metallurgy **functionalities** Phase transformation Recrystallization and grain size User routines - General concept - Selecting preset variables Questions and course assessment Conclusion