



Starting with FORGE®

Now is the time to discover FORGE® and its extensive possibilities. After this course, you'll be able to get the most out of the software!

This course will be your first approach to FORGE®. The first day lets you understand all of the data setup steps, the procedure for launching computations and how to analyze the main results. The second day will be devoted to more in-depth analysis of a full

panel of results for a better interpretation of physical phenomena.

Key functions will be covered such as die stress analysis, fibering techniques, detecting folds as well as customizing the working environment.

LEVEL



PREREQUISITES

There are no prior requirements for this course.

GOALS

- Data setup for forging (punching/closed-die forging)
- · Launching a single computation and/or a computation sequence
- Analyzing simulation results
- Identifying and interpreting forging defects (folds, cracks, etc.)
- Visualizing fibering and monitoring physical values (temperature, pressure, etc.) at any point on the part
- Predicting die wear and performing tooling analysis (stress, etc.)
- Customizing your working environment

OTHER RECOMMENDED COURSES

- Finite element modeling fundamentals
- New functionalities of FORGE® NxT 3.2

DUKATION		DATES	
2 Days	20-21 January	27-28 May	22-23 September
TRAINING		PRICE EXCL. TAX	PARTICIPANTS
Inter-company		1080€ per person	3 to 8 people
In-company		2600€ per training	1 to 3 people

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



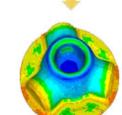
DAY 1 > 8.30 a.m. to 12.00 p.m. & 1.30 p.m. to 5.00 p.m.

Introduction	Transvalor presentationCourse goalsReminders of finite element method	
Data setup	 Presentation of the environment Concepts: stores, processes, cases and stages Importing geometries Surface and volume meshes Definition of kinematics Rheology, friction, heat exchanges, materials database (FPD) Object handling (creation, trimming) Application to a tutorial case 	
Launching computations	Quick launch Batch handler and chained simulations	
Analyzing results	 Displaying results, the main scalars and vectors Curve patterns, animations, VTFx export Multi-window analysis Handling animations and exporting results 	
Data setup for an industrial case	- Launching computation	









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

Analyzing results from an industrial case	Interpreting results
Additional functions	 Marking grid and fibring Predefined and post-processed sensors Furnace-to-press initial cooling Billet cutting, drilling and trimming Import of tooling assembly
Die analysis	Uncoupled and coupled approach
Working environment customization	Creating specific models and data sets (materials, presses, friction, etc.)
Perspectives	Introduction to advanced notions: induction, heat treatment
Conclusion	Questions and course assessment

1st: initial cooling phase 2nd: upsetting 3rd: blocker