COLDFORM®

Mastering the software

Enhance your knowledge with COLDFORM® and master the latest software features!

Thanks to this training, you will develop expertise on the newly redesigned graphic interface, which speeds up data setup and result analysis, and you will have a better knowledge of the latest solver features.
You will discover how to use the multi-project mode, customized 'data stores' and advanced sensor and marking techniques.

After this training, you will also know how to identify defects in order to better analyze and understand the results.

LEVEL

Intermediate - Users looking for support when moving to the NxT version and willing to learn all of its functions.

PREREQUISITES

A first experience with COLDFORM® software is required.

GOALS

- **Performing your data setup according to the 'workflow' set out by the new graphic interface**
- **Launching 'step by step' or 'full process' computation**
- **Understanding and analyzing the results**
- **Customizing your working environment**

OTHER RECOMMENDED COURSES

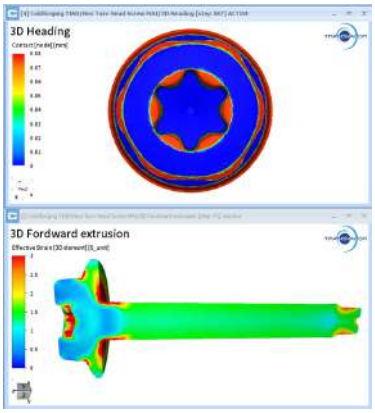
- COLDFORM® - Die analysis

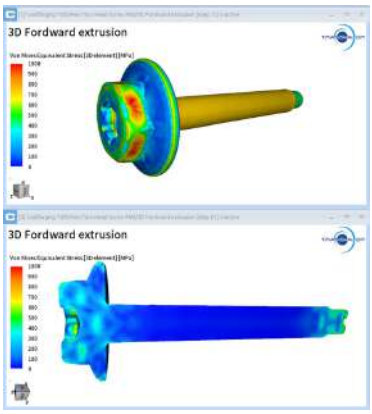
DURATION	DATES 2024		
1.5 days	08-09 February	12-13 June	09-10 October

TRAINING	PRICE EXCL. TAX	PARTICIPANTS
Inter-company	1120 € per person	3 to 8 people
In-company	2250 € per training	1 to 3 people

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
Data setup	· Process, case, stage and store concepts · Importing geometries, meshing quality, local and global surface repair · Meshing parameters: advanced options, mirror, surface export · Object transformation: offset, flipping, gravity adjustment · Global switch from 2D to 3D · Rheological data: cold rheology generator, stress curves in tabulated format, anisotropic behavior · Defining friction or local heat transfer · Data verification with 'data setup status'
Launching computations	· Launching stages or a full simulation · Optimum number of cores for a simulation · Computation manager · Computation report
Result analysis	· Identifying common defects: underfilling, folds, cracks · Graphs: energy and forces · Comparing projects with multi-windows viewing tool · Animation of one or more process stages · Customizing working environment
Advanced functions	· Predefined and post-processed sensors · Marking grid: tracking central area and sheared surface · Identification of piping effect by under-skin marking · Identification of the flash by reverse engineering
Customizing environment	· Customizing the store manager and the data setup · Creating your data setup case or stage · Recording macros for automating data setup · One-click sharing





Multi-window analysis

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

Numerical aspects	· Managing time steps · Remeshing techniques and meshing adaptation · Analytical and smoothed die
Advanced functions	Forging · Transition: forging in a multiple cavity matrix · Self-contact, gas and lubricant trapping User routines · General concept · Selection of predefined variables
Conclusions	· Questions and course assessment

Forging sequence
Courtesy of Miguel Altuna Institute