

## WORKSHOP

### Convergence solutions in NX Nastran

<b>Level</b>	Advanced
<b>Duration</b>	1 day
<b>Language</b>	English or Dutch
<b>Location</b>	Delft, or on-site

#### Description

Expected different results from an analysis or came across an analysis that did not converge? Many of such problems can be resolved with correct solver settings. Depending on the kind of simulation, different strategies can be chosen. Is it a static or a dynamic analysis? Is it force driven or displacement driven? Does it mainly involve plasticity, are there large displacements? Does it involve buckling to analyze the stability of the structure? Different solver parameters can be tuned to get better performance. With real-world examples we guide you through the convergence solution methods from scratch.

#### Aim of workshop

After the training, the trainee is capable of selecting the right solution methods in case of no convergence in NX Nastran.

#### Topics

- Theory and methods
- Analysis control (ATS, LDC)
- Analysis parameters (line search, matrix stabilization)
- Modelling influence (contact, element types, boundary conditions)
- Troubleshooting



#### Who should attend?

This workshop is intended for structural engineers and finite element analysts who want to learn correct solver settings to troubleshoot convergence in NX Nastran (with Femap).

**Interested? Sign up on [www.femto.eu](http://www.femto.eu) or send your training request to [info@femto.nl](mailto:info@femto.nl).**

#### About us

At Femto Engineering we help companies achieve their product innovation goals with FEA & CFD consulting, software, training, support, deployment and R&D. We are the CAE partner of Siemens PLM Software in the Benelux and an authorized distributor for Femap, NX Nastran, Simcenter 3D and SDC verifier.

#### Directions

Our address is: Oude Delft 137, Delft.  
By car: follow the parking signs to the Phoenixgarage (Phoenixstraat 29). Leave the “centrum” exit from the parking and turn left. Directly after the gate, we’re in the first building on your right.  
When you arrive by train, it’s a 5 minute walk via the Westvest and the Binnenwatersloot to the Oude Delft.

