

## WORKSHOP

### Contact analysis 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

Many mechanical simulations involve parts coming into contact under load. Linear contact can be difficult to get a grasp on, but when you learn to break it down into simple components it can be a very useful technique to master. Basically it is about element faces intersecting other element faces. Advanced contact capabilities in NX Nastran (with Femap) allow you to simulate surface contact using either shell or solid elements.

#### Aim of workshop

After the training, the trainee is capable of correctly specifying the contact regions and the initial contact conditions for a successful contact analysis.

#### Topics

- Linear vs nonlinear
- Definition (Source/Target, gap elements)
- Commonly used parameters (Friction, Initial penetration)
- Other parameters (rigid, offset, compliance)
- Troubleshooting

#### Who should attend?

This workshop is intended for designers, engineers and finite element analysts who will be using NX Nastran to perform contact analyses.

**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.

