

Simcenter Nastran 2019.2

Advanced Dynamic Analysis with Simcenter Pre/Post

Course Code **NAS221-GH**

User Level **Advanced**

Language **English**

Price **\$2,200.00 (USD)** (Price may not include taxes applicable to your billing region)

Training Center Duration **2 Days**

For More Information **Learning Services, USA (training.usa.plm@siemens.com)**

The **Advanced Dynamic Analysis with Simcenter Pre/Post** course continues where the NX Nastran Introduction to Dynamic Analysis course left off in teaching NX Nastran's dynamic analysis capabilities. It covers fundamental methods of dynamic response, including both modal and direct analysis. There is an emphasis on practical applications and enhancing the students' engineering judgment with respect to dynamic response. The fundamentals of structural dynamics theory and the numerical methods used to solve them are presented.

This course covers the linear dynamic response capabilities in NX Nastran, including model reduction, random response analysis, shock and response spectra, MFLUID, and nonlinear applied loads. A variety of hands-on workshop exercises supplement the lecture content. The class is focused on NX Nastran and most of the material applies independently of pre- or postprocessor. However, additional material is available for demonstration of use with Simcenter Pre/Post.

#### WHO SHOULD ATTEND

This course is intended for finite element analysts who will be using NX Nastran to perform dynamic analyses to predict structural behavior under steady state and transient conditions.

#### COURSE TOPICS

- Model Reduction
- Shock and Response Spectrum
- Random Response
- Extra Points, Transfer Functions, and NOLINs
- Use of MFLUID

#### PREREQUISITES

Required courses:

- NX Nastran Introduction to Dynamic Analysis with NX (G2H) (NXNAS121)

#### PROVIDED COURSE MATERIAL

- Student Guide
- Activity Material

## Course Description

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