

**Course Description** 

Simcenter Nastran 2019.2

Introduction to Dynamic Analysis with Simcenter Pre/Post

Course Code	NAS121-GH
User Level	Intermediate
Language	English
Price	\$3,300.00 (USD) (Price may not include taxes applicable to your billing region)
Training Center Duration	3 Days

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

The Introduction to Dynamic Analysis with Simcenter Pre/Post course introduces the dynamic capabilities available in NX Nastran. It covers the fundamental methods for solving for dynamic response, focusing on modal 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 are reviewed and the numerical methods used to solve them are presented.

The course covers the linear dynamic response capabilities of NX Nastran, including normal modes analysis, transient and frequency response, residual vectors, and enforced motion. 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	COURSE TOPICS	
This course is intended for designers, engineers and finite element analysts who will be using NX Nastran to perform dynamic analyses to predict structural behavior under steady state and transient conditions.	<ul> <li>Normal Modes Analysis</li> <li>Model Mass</li> <li>Damping</li> <li>Transient Analysis</li> <li>Frequency Response Analysis</li> <li>Residual Vectors</li> <li>Enforced Motion</li> </ul>	
PREREQUISITES		
Endiced Motion Required courses:     Introduction to Finite Element Analysis with Simcenter Pre/Post (NXNAS111-GH)		

**PROVIDED COURSE MATERIAL** 

Student Guide

Activity Material