

NX Nastran 10.0**NX Nastran Introduction to Dynamic Analysis with Femap**

Course Code NXNAS120

User Level Intermediate

Price \$1,650

Training Center Duration 3 Days

The **NX Nastran Introduction to Dynamic Analysis (Femap)** 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 Femap.

WHO SHOULD ATTEND

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.

PREREQUISITES

Required courses:

- NX Nastran Introduction to Finite Element Analysis with Femap (NXNAS110)

PROVIDED COURSE MATERIAL

- Student Guide
- Activity Material

COURSE TOPICS

- Normal Modes Analysis
- Model Mass
- Damping
- Transient Analysis
- Frequency Response Analysis
- Residual Vectors
- Enforced Motion
- Normal Modes Analysis with Preload