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## Training Course Details

**Title:** NX Nastran Dynamic Analysis

**Course Objectives:** The NX Nastran Dynamics Analysis course is a comprehensive presentation of the dynamic capabilities available in NX Nastran. It covers both fundamental and advanced topics with an emphasis on practical applications and example problems. The class is focused on the application of NX Nastran to solve real world dynamics problems. The fundamentals of structural dynamics and the application of numerical methods to solve dynamics problems are covered. The theory is then applied to the solution of real world dynamics problems using the dynamic analysis capabilities of NX Nastran. Delivery is performed in the context of NX Nastran ASCII input and output files and not in the context of commercially available pre- and postprocessors.

**Who Should Attend?** Users who will be using NX Nastran to perform dynamic analyses to predict structural behavior under steady state and transient conditions

**Agenda overview:** Normal mode analysis  
Complex modes analysis  
Rigid body dynamics  
System damping  
Enforced motion  
Transfer functions  
Response analysis  
Test-analysis correlation  
Dynamic design optimization

**Duration:** 4 days

**Software Version** NX Nastran 7.0

**Prerequisites:** NX Nastran Linear Static and Normal Modes Analysis course

**Deliverables:** Student guide  
Activity material  
Course certificate

**Optional activities:**