SIEMENS
Ingenuity for life

NX Nastran 12.0

Introduction to DMAP in NX Nastran

Course Code	NXNAS312-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 **Introduction to DMAP in NX Nastran** course offers training in the NX Nastran Direct Matrix Abstraction Program (DMAP) language. Students will learn to write their own DMAP extensions to enhance the capabilities of NX Nastran. DMAP can be used to enhance the functionality of NX Nastran including computation of different responses, the transfer of non-standard data to and from NX Nastran or to incorporate other user-developed algorithms. The student will learn to use the DMAP language through the presentation of lecture materials and the completion of example problems.

WHO SHOULD ATTEND	COURSE TOPICS

This course is intended for advanced finite element analysts who need to be able to customize NX Nastran to their exact requirements including acceptance of new inputs, performance of new calculations and generation of new outputs.

• Introduction to DMAP
• DMAP Data Types (Parameters and Datablocks)
• DMAP Syntax (Modules)
• subDMAPs
• Understanding NX Nastran solution sequences
• Altering solution sequences
• Input and Output
• Database
• ISHELL module for user provided routines

PREREQUISITES

Required courses:
 • NX Nastran Introduction to Finite Element Analysis with Femap (G2H) (NXNAS110)
 • NX Nastran Introduction to Finite Element Analysis with NX (G2H) (NXNAS111)

 • Basic understanding of finite element analysis principles, statics, solid mechanics, and basic dynamics.
 • Basic linear algebra including matrix operations, eigenvalue solutions, etc

PROVIDED COURSE MATERIAL

• Student Guide
• Activity Material