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NX Nastran 12.0

Coupled Structure/Acoustic Analysis with Simcenter Pre/Post (G2H)

Course Code	NXNAS421
User Level	Intermediate
Language	English
Price	$1,100.00 (USD) (Price may not include taxes applicable to your billing region)
Training Center Duration	1 Day
For More Information	Learning and Adoption Services, USA (training.usa.plm@siemens.com)

(G2H) Guaranteed to Hold. Select Here for more information about G2H courses.

 The **Coupled Structure/Acoustic Analysis with Simcenter Pre/Post** course introduces the acoustics and structural-acoustics coupled analysis capabilities of NX Nastran. It covers the solution of acoustic systems, the solution of coupled structural-acoustic systems, the implementation of acoustic boundary conditions, and the modeling of absorbers, barriers, and infinite boundaries. Examples and workshops give the student practical hands-on experience.

The class is focused on NX Nastran and all of the material applies independently of pre- or postprocessor. The workshops and examples are deck centric (i.e. the decks will be prepared with a text editor), though where appropriate Simcenter Pre/Post will be used for preprocessing of the model and visualization of results.

WHO SHOULD ATTEND

This course is intended for engineers and finite element analysts who will be using NX Nastran to perform analysis of fluid or coupled fluid-structural systems to predict responses under steady state and transient conditions.

PREREQUISITES

Required courses:
 • NX Nastran Advanced Dynamic Analysis with NX (G2H) (NXNAS221)

Participant also needs to have a basic understanding of finite element analysis principles and a working knowledge of Nastran and Simcenter Pre/Post.

PROVIDED COURSE MATERIAL

• Student Guide
• Activity Material

COURSE TOPICS

• Solution of acoustic modes
• Acoustic boundary conditions
• Frequency and transient response of acoustic systems
• Modeling sound absorption, barriers, and infinite boundaries
• Coupled structural/acoustic systems