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Training Course Details

Title: NX Motion Simulation

Course Objectives: Simulation is a CAE software application used to apply motion simulations to a mechanism model. Upon successful completion of this course students will understand how to apply and edit motion simulations, use motion simulations to analyze, troubleshoot and optimize a mechanism design.

While this course does include classic engineering topics such as statics, dynamics, kinematics and kinetics, the primary objective of this course is to train users in the use and application of the engineering software package. This course will not serve as a substitute for formal engineering education on these topics.

Who Should Attend? Designers and engineers who need to create and articulate motion studies using NX models

Agenda overview: Intro and fundamental skills
Kinematic/dynamic simulation
Static equilibrium of mechanisms
Motion objects and motion drivers
Forces
Torques
Dampers
Springs
Bushings
Contacts
Articulation and animation
Range of motion analysis
Interference checking
Analysis results
Graphing and spreadsheets

Duration: 3 days

Software Version NX5, NX6, NX7

Prerequisites: Essentials for NX Designers course

Deliverables: Student guide
Activity material
Course certificate

Optional activities: Practical applications of NX