



Solution
Partner

SIEMENS

PLM

Innovate . Develop . Advance

NX Motion Simulation

Course Overview

Understanding the operating environments for intricate mechanical systems – like the mechanisms in photocopiers, sliding automotive sunroofs, or aircraft wing flaps – can be challenging. Many CAD tools offer kinematic solutions that help designers cycle a mechanism through its mechanical path for interference checking. Kinematics alone, however, doesn't provide all the critical information you need, such as the dynamic loads generated by moving parts that can be used to size motors.

NX CAE offers multibody dynamics simulation capabilities that go beyond simple kinematics. Motion analysis calculates the reaction forces, torques, velocities, acceleration and more for mechanical systems. The integration of this motion analysis software with NX lets you directly convert CAD geometry and assembly constraints into an accurate motion model, while the embedded RecurDyn motion solver and robust post processing capabilities allow the study of a broad range of product behaviours.

Motion 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 analyse, troubleshoot and optimize a mechanism design.

Who Should Attend?

Designers and engineers who need to create and articulate motion studies using NX models.

Course Agenda: 2 Days

- Introduction and fundamental skills
- Kinematic/dynamic simulations
- Motion objects (links and joints) and motion drivers
- Applied forces, torques, dampers, springs, bushings, and contacts
- Articulation and animation
- Range of motion analysis and interference checking
- Analysis results, including graphing and spreadsheets
- Advanced analysis, including flexible bodies and PMDC motors



Recommended Courses

- NX Design Essentials
- NX Basics

"From one-to-one training, group training events, workshops and online/telephone support. Each time has enabled me to use NX more efficiently and more effectively"

Sheffield Precision Medical





Innovate . Develop . Advance



A comprehensive overview of NX Design Essentials is done with our technicians

Welcome to TEAM

The TEAM Difference? ...is the people we employ within the Company. Our engineering team come with many years of invaluable industry experience. Coupled with this is our long track record with both the software and our commitment to supporting our many customers who design using Siemens PLM technology.

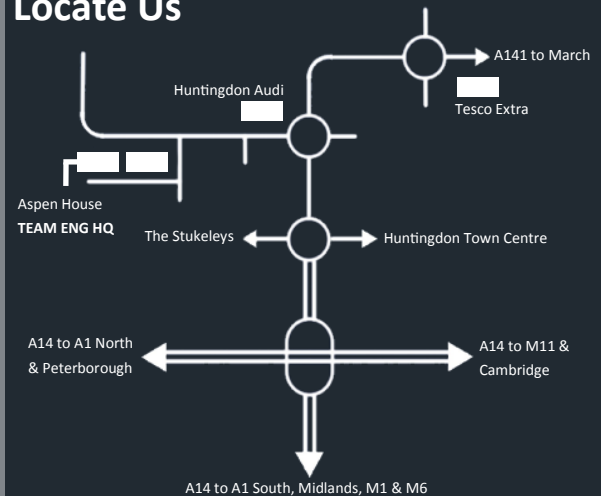
We like to think we have all the answers, but in fact, we listen first; then we work together - as a TEAM.

TEAM Engineering

Directions to our Technical Centre

- **BY CAR**—Head toward Huntingdon on **A14 / A141**. Enter **Washingley Road** and take the **second left** into **Vantage park**. Take **First right** into the **Aspen house** car park. We are in unit **10D**. Welcome to TEAM Engineering.
- **BY AIR**—From Stansted head North on M11, merge onto A120 then back to M11 to Cambridge. Take A14 then A1198 to Royston. Then follow signs for Huntingdon (55 mins)
- **BY RAIL**— Head to 'HUN' station on Brampton Road. Follow B1044 via Stukeley Road then follow CAR directions (6 mins)

Locate Us



Contact Us

TEAM Engineering Ltd.

Aspen House, Vantage Park, Washingley Road, Huntingdon, PE29 6SR

Copyright © 2016 TEAM Engineering Ltd.
All rights reserved

Email: sales@team-eng.com

Phone: 08456 442882

Join our social network

Every month you could **WIN** a space controller. Join our network to find out how.

