

ENOVIA Training

DMU Kinematics



Course Length: 1 day

Learn how to create and simulate V5 mechanisms using CATIA products. The course begins with an overview of the mechanism design process and then each step in the process is discussed in depth using lectures and hands-on practices. This course also introduces the concept of converting assembly constraints into kinematic joints. Additionally, this learning guide provides an introduction to converting V4 mechanisms to V5 as well as the 3D model method of creating kinematic assemblies.

Course Topics:

- Kinematic analysis process
- Constraint-based joints
- Curve/surface-based joints
- Ratio-based joints
- Compiling and replaying a simulation
- Swept volumes
- Traces
- Sensors
- Clash detection
- Assembly constraint conversion
- CATIA V4 mechanisms
- Simulation with laws

Course inclusions:

CATIA: Part & Assembly Design Workbench Quick Reference Card

Prerequisites: One of the following courses must be taken prior to DMU V5 Kinematics:

- DMU: Navigator and Space Analysis
- CATIA: Introduction to Modeling
- CATIA: Introduction for Non-Designers



Learn Where It's Convenient for You

Attend Classes:

- Online with an instructor
- At one of our training centers
- At your on-site training facility
- At a location of your choice (via our mobile training labs)

Contact us:
training@rand.com
877.726.3243



ASCENT
CENTER FOR TECHNICAL KNOWLEDGE

Class curriculum is developed by ASCENT, developers of professional training courseware and technical documentation for Autodesk, Dassault Systèmes and PTC software.