MSC Software

MSC **Learning**Center

The MSC Learning Center offers an online e-Learning subscription
Making it easy for you to fit training without leaving your office!

The MSC Learning Center is designed to suit our customer needs:

- Increase number of trained and qualified engineers with simulation skills
- Refresh and/or gain new skill sets
- Flexible training offerings:
  - e-Learning (On-Demand Online training)
  - Instructor-Led Training
  - Virtual Instructor-Led training
- Increased access and decreased cost for training
- Accommodates your schedule without travel
- Certification Exams for validating simulation skills

MSC e-Learning Academic Subscription:

Subscribers to the MSC e-Learning Academic Subscription will receive the following for 1 year from time of purchase:

- Individual named user account for the MSC Learning Center
- Unlimited access to all training courses:
  - Adams
  - MSC Nastran
  - Marc
  - Actran
  - Easy5
  - Patran
  - MSC Apex
- Online courses are made up several modules
- Most modules contain lectures, demos, audio from subject matter experts, workshops, and review questions
- Course Completion Certificates
- Collaboration with simulation community through discussion forums
- Stay up to date with the latest features in MSC Software Products

Value:

- If you are in the middle of a project and need to gain insight on a new task or simulation method quickly drop into the MSC Learning Center to browse through the courses and topics of interest to quickly get up to speed
- Flexibility, Convenience and Easy Access
- Interactive and Hands-on Training
- Courses developed by MSC subject matter experts (SME)
- Community access that allows user to ask MSC SME's questions
- Accessed from any internet enabled device
- Quickly identify the skills you are proficient at and the skills you need to focus on developing
- Career advancement/Development
- Prove to your current/future employer that you have sufficient CAE skills to add value on projects
- The MSC e-Learning Academic Subscription is being offered at an discounted rate of $99 USD.

Courses Offered:

Adams E-Learning Content

Course #	Course Name
ADM701	Complete Multibody Dynamics Analysis with Adams
ADM704A	Advanced Parametrics, Design Sensitivity, and Optimization using Adams/View
ADM704B	Automating Tasks using Adams/View Scripting, Macros, and GUI Customization
ADM710	Flex Body Dynamics and Modal Stress Recovery using Adams
ADM711	Control System Integration with Adams using MATLAB or Easy5
ADM730	Design of Experiments (DOE) and Stochastics (Monte Carlo) Analysis using Adams
ADM740	Vehicle Modeling and Simulation using Adams/Car
ADM743	Formula SAE Applications with Adams/Car
ADM750	Gear, Belt, and Chain Modeling with Adams/Machinery
ADM702	Fundamentals of Multibody Dynamics Analysis with Adams
ADM703A	Advanced Modeling Elements and Techniques with Adams/Solver
ADM703B	Adams/Solver Theory: Achieving Robust, Converged Solutions
ADM703C	Writing User Subroutines in Adams/Solver
ADM720	Frequency Domain Analysis using Adams/Vibration
ADM741	Vehicle Drivetrain Modeling Using Adams/Driveline
ADM761	Basic Suspension and Full Vehicle Analysis using Adams/Chassis
GAT101	Advanced drivetrain modeling with Adams Gear AT

Patran E-Learning Content

Course #	Course Name
PAT301	Introduction to Patran
PAT302	Advanced Geometry, Meshing, Customization, and Variable LBCs using Patran
PAT304	Automating Tasks and Basic GUI Customization Using the Patran Programming Command Language (PCL)
PAT318A	Basic Durability and Fatigue Life Analysis Using MSC Fatigue
PAT318B	Advanced Durability and Fatigue Life Analysis Using MSC Fatigue
PAT325	Composite Laminate Modeling using Patran

MSC Apex E-Learning Content

Tutorial #	Course Name
1	MSC Apex Modeler – Introduction
2	MSC Apex Modeler – FEM Import / Export
3	MSC Apex Modeler – Incremental Midsurfacing Process
4	MSC Apex Modeler – Midsurface Geometry Repair
5	MSC Apex Modeler – Model Structure
6	MSC Apex Modeler – Solid Geometry Creation and Editing
7	MSC Apex Structures – Glued Assembly Analysis
8	MSC Apex Structures – Linear Static Analysis
9	MSC Apex Structures – Performing a Modal Analysis

MSC Nastran E-Learning Content

Course #	Course Name
NAS101A	Linear Static and Normal Modes Analysis using MSC Nastran
NAS101B	Advanced Linear Analysis using MSC Nastran
NAS106A	Basic Substructure Analysis using MSC Nastran – Primary Super elements
NAS113	Composite Material Analysis using MSC Nastran
NAS120	Linear Static Analysis using MSC Nastran and Patran
NAS122	Basic Dynamic Analysis using MSC Nastran and Patran
NAS133	Contact Analysis using MSC Nastran and Patran
NAS134	Advanced Contact Analysis using MSC Nastran and Patran
NAS106B	Advanced Substructure Analysis using MSC Nastran – Secondary Super elements
NAS107	Design Sensitivity and Optimization using MSC Nastran
NAS102A	Dynamic Analysis using MSC Nastran
NAS102B	Advanced Dynamic Analysis using MSC Nastran
NAS104	Thermal Analysis using MSC Nastran (SOLs 153 and 159)
NAS110	Working with Custom MSC Nastran Solution Sequences using DMAP
NAS111	Aeroelasticity using MSC Nastran
NAS115	Fluid Structure Analysis using MSC Nastran
NAS123	Implicit Nonlinear Analysis using MSC Nastran and Patran
NAS124	Thermal Analysis using MSC Nastran (SOL400)
NAS126	Explicit Nonlinear Analysis (SOL700) using MSC Nastran and Patran
NAS127	Rotordynamic Analysis using MSC Nastran
NAS400	Implicit Nonlinear Analysis using MSC Nastran and Patran

Marc E-Learning Content

Course #	Class Name
MAR101	Basic Nonlinear Analysis using Marc and Mentat
MAR102	Advanced Nonlinear Analysis using Marc and Menta
MAR120	Basic Nonlinear Analysis using Marc and Patran
MAR121	Advanced Nonlinear Analysis using Marc and Patran
MAR120	Basic Nonlinear Analysis using Marc and Patran
MAR121	Advanced Nonlinear Analysis using Marc and Patran

Actran E-Learning Content

Course #	Course Name
1	Actran Acoustics – Basics
2	Actran Acoustics – Advanced
3	Actran VibroAcoustics – Basics
4	Actran VibroAcoustics – Advanced
5	Actran AeroAcoustics – Basic

The MSC e-Learning Academic Subscription is being offered at an academic rate of $99 USD.

For the student engineer who wants to quickly be productive with MSC Software Technologies to simulate current project designs…

For more information, visit: www.mscsoftware.com/msc-academic-learning-center