



MSC **Learning**Center

Get the Training You Need
Anytime You Need It

Our Philosophy:

- MSC's on-demand e-Learning training philosophy is to leverage the same content as our live instructor-led classes, developed by MSC experts across many engineering disciplines and industries.
- Single-sourcing our content allows MSC to combine the benefits of our mature, time-tested live content with the new capabilities on-demand training offers.

MSC Learning Center

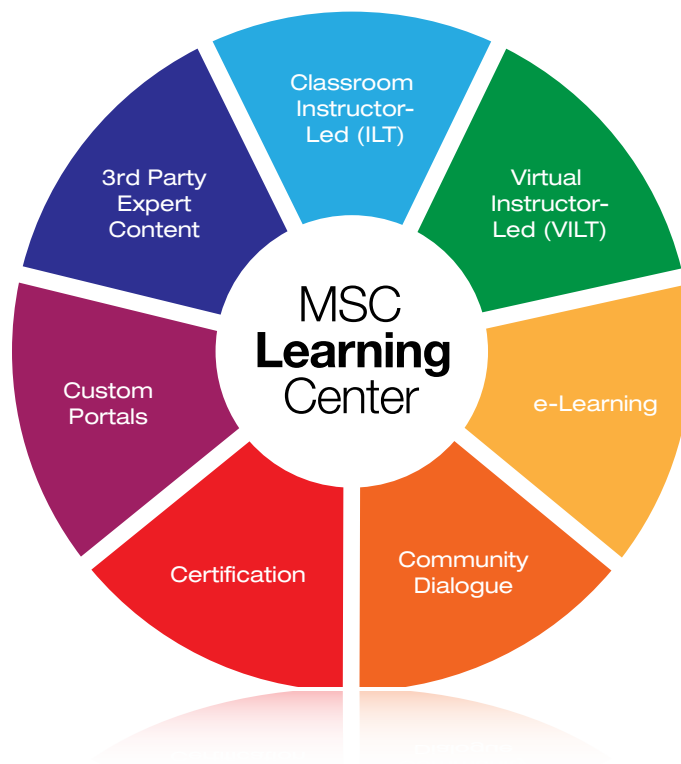
Flexible Training Solutions

How many of us find it difficult to fit training into our schedules?

Unfortunately, it is quite challenging to achieve a workload and study balance so that we are up to date with the latest features in technology that we use on a day to day basis.

The MSC learning center focuses on making training convenient and accommodating different learning styles by providing you with a blended approach to learning; meeting your needs whether you have five minutes or five days, whether you want a lot of interaction or just simply find the information you need when you need it. Making it easy for you to fit training into your schedule!

MSC understands that everyone learns differently; some of the most coming learning styles include: visual, auditory, social, and kinesthetic ("Hands-on"). Many of us use different learning styles depending on the time and circumstance. Whatever the circumstance, you can guarantee that MSC has an approach to learning that will suite your needs, style, and requirements.



e-Learning Subscription

Anywhere, Anytime!

The MSC Learning Center's e-Learning subscription provides you an innovative and creative approach to instruction that provides unprecedented access to resources and training. Besides offering flexibility and cost savings, you can proceed through a training curriculum "at your own pace and at your own place."

MSC e- learning is an efficient and effective training solution that:

- Accommodates your Schedule without travel
- Decreases cost & Increases access to training
- Allows you to manage your own learning experience
- Provides access to MSC experts and users via MSC communities
- Delivers Course Completion and Certification Certificates

Offering:

MSC's on-Demand e-Learning is offered on a subscription basis. With the e-learning subscription you get access to all online training courses for the various software products such as: MSC Nastran, Adams, Marc, Patran, Easy5, Actran, Material Center, SimManager, Apex and Adams toolkits with courses being added/updated continuously throughout the year.

**See for the details for each courses on the next page.*

Subscription includes:

- Individual named user access to the MSC Learning Center and your subscription content from your desktop, laptop, or tablet device.
- Unlimited access to all available content in your subscription area for 12 months from your start date.
- Certification Exams that, upon achieving a passing score, you will receive a certificate and/or you can post to your public community profile.
- Social membership and forum participation to allow collaboration within your company and the broader MSC simulation community

Social Collaboration

- Each training class has a dedicated support forum for posting course related questions to the experts at MSC and the online community.
- Users can engage, collaborate, co-create, and share knowledge by asking and answering questions
- A Document Management System with Rate & Share Capability is available to allow sharing of value-added content
- Peer-to-Peer Networking allows users to collaborate among themselves, form a team, and set team goals.

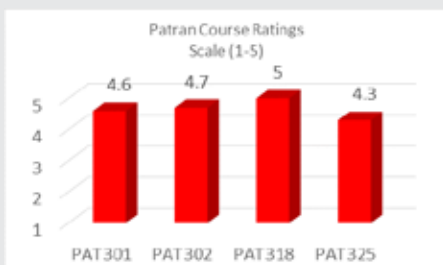
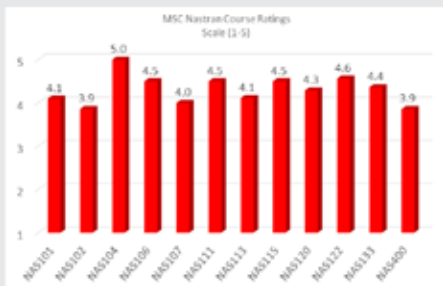


Ratings for the Course:

According to our Customers our classes are useful, effective, and meet their needs



Annually we ask our users to evaluate our courses based on their usefulness, effectiveness, and how well they cover the objectives for the course. The scale is from 1 to 5 with 1 being a poor rating and 5 being an excellent rating. As you can see our customers find value in our training courses.



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

Adams e-Learning Content

Course #	Course Name
ADM701	Complete Multibody Dynamics Analysis with Adams
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
ADM704A	Advanced Parametrics, Design Sensitivity and Optimization using Adams/View
ADM704B	Automating Tasks using Adams/View Scripting, Macros, and GUI Customization
ADM708	What's New in Adams
ADM710	Flex Body Dynamics and Modal Stress Recovery using Adams
ADM711	Control System Integration with Adams using MATLAB or Easy5
ADM720	Frequency Domain Analysis using Adams/Vibration
ADM730	Design of Experiments DOE and Stochastics Monte Carlo Analyses using Adams
ADM740	Vehicle Modeling and Simulation using Adams/Car
ADM741	Vehicle Modeling and Simulation using Adams/Driveline
ADM743	Formula SAE Applications using Adams/Car
ADM750	Gear, Belt, and Chain Modeling with Adams/Machinery
ADM761	Basic Suspension and Full Vehicle Analysis using Adams/Chassis
GAT101	Advanced drivetrain modeling with Adams Gear AT

Easy5 e-Learning Content

Course #	Course Name
EAS101	Dynamic System Modeling and Simulation using Easy5
EAS103	Modeling and Simulation of Fluid Power Systems using Easy5
EAS105	Modeling and Simulation of Gas Systems using Easy5
EAS106	Overview and Usage of the EASY5 Matrix Algebra Tool
EAS107	Modeling and Simulation of Multi-Phase Fluids using Easy5
EAS110	Interfacing EASY5 with Other Software

FlightLoads e-Learning Content

Course #	Course Name
FLD120	Aeroelasticity using FlightLoads and Patran

Marc e-Learning Content

Course #	Class Name
MAR101	Basic Nonlinear Analysis using Marc and Mentat
MAR102	Advanced Nonlinear Analysis using Marc and Mentat
MAR103	Experimental Elastomer Analysis
MAR105	Thermal Protection Systems Analysis using Marc and Mentat
MAR108	What's New in Marc
MAR120	Basic Nonlinear Analysis using Marc and Patran
MAR121	Advanced Nonlinear Analysis using Marc and Patran

MaterialCenter e-Learning Content

Course #	Course Name
MAT101	Introduction to MaterialCenter
MAT102	MaterialCenter for the Materials Engineer

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
Apex Kit	Practicals for Strength of Materials and other Engineering Concepts using MSC Apex

Patran e-Learning Content

Course #	Course Name
PAT301	Introduction to Patran
PAT302	Advanced Geometry, Meshing, Customization, and Variable LBC's 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 Nastran e-Learning Content

Course #	Course Name
NAS101A	Linear Static and Normal Modes Analysis using MSC Nastran
NAS101B	Advanced Linear Analysis 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)
NAS106A	Basic Substructure Analysis using MSC Nastran - Primary Superelements
NAS106B	Advanced Substructure Analysis using MSC Nastran - Secondary Superelements
NAS107	Design Sensitivity and Optimization using MSC Nastran
NAS108	What's New in MSC Nastran and Patran
NAS110	Working with Custom MSC Nastran Solution Sequences using DMAP
NAS111	Aeroelasticity using MSC Nastran
NAS113	Composite Material Analysis with MSC Nastran
NAS115	Fluid Structure Analysis using MSC Nastran
NAS120	Linear Static Analysis using MSC Nastran and Patran
NAS122	Basic Dynamic Analysis using MSC Nastran and Patran
NAS123	Implicit Nonlinear Analysis using MSC Nastran (SOL600)
NAS124	Thermal Analysis using MSC Nastran
NAS126	Explicit Nonlinear Analysis (SOL700) using MSC Nastran and Patran
NAS127	Rotordynamic Analysis using MSC Nastran
NAS133	Contact Analysis using Contact Pairs in MSC Nastran and Patran
NAS134	Advanced Contact Analysis using Contact Pairs in MSC Nastran and Patran
NAS318	Implementation of Fatigue Methods using MSC Nastran – Embedded Fatigue (NEF) with Patran
NAS400	Implicit Nonlinear Analysis using MSC Nastran and Patran

SimDesigner e-Learning Content

Course #	Course Name
SMD102	Fundamentals of Multibody Dynamics Analysis with SimDesigner

SimManager e-Learning Content

Course #	Course Name
SMM101	Introduction to SimManager
SMM102	SimManager Basic Configuration
SMM301	SimManager Advanced Configuration



Training courses are rated and reviewed by a community of peers



Course Calendar



Training that is "at your own pace and your own place"

Content Highlights

- Each class is broken into a series of modules, building on knowledge learned from previous modules. This allows users to connect the dots from each topic; developing thorough skillsets and knowledge.
- Each module typically comes with lecture slides, workshops ranging from simple examples to real world problems delivered with model files, video demonstrations, end of lecture and workshop review questions, and audio from subject matter experts (SMEs).
- Audio from the SME is designed to supplement the lecture slides by providing insight and expertise from years of teaching.
- Dynamic table of contents allows users to quickly browse and jump to any point in the course.
- After class completion, you can take certification exams that prove your proficiency in the features and skillsets learned in the training course(s).
- Social collaboration via MSC communities acts as the Face-to-Face interaction with an MSC SME to support any questions about the course content and course files to Link to Technical Forums.

Link to Technical Forums

Search TOC & Content

Dynamic Table of Contents

Workshop Materials

Audio Commentary

Demo Videos

Simple Navigation

Certification Program:

Interested in advancing in your current field? Interested in assessing your team's skills? It's important to have the necessary qualifications to show that you are capable.

Earning a professional certificate from MSC Software can help you build your skills, increase your knowledge in your chosen area of study, prepare you for career advancement, and prove your proficiency in MSC Software Products.

Benefits:

- Establishes a goal for your training; supports your studying process
- Quickly Identifies the skills you are proficient at and the skills you need to focus on developing
- Prove to your current/future employer that you have sufficient CAE skills to add value on projects
- Career advancement/development

Features:

- Certification Exams contain up to 50 multiple-choice questions, randomly chosen out of a question pool
- Exams take up to an hour to complete
- Ability to retake exam up to 3 times, with 1 day lockout period between exam attempts
- Certifications achieved can be posted on your community profile (optional)
- Receive a certificate via email upon passing exam or completing a course
- Can access the certificate from the training details page on your transcript in the MSC Learning Center

Mobile Learning:

Mobile learning is a step further than e-Learning allowing users to learn virtually anywhere.

Benefits:

- Easy access (anywhere, anytime)
- Self-paced learning

Features:

- Access e-Learning from any mobile device, through our dedicated apps for Apple and Android.
- View and take learning programs and courses
- View and take Assessments



Subscribers can download, save, and print their certificates from the details page of the course or exam they have completed.





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