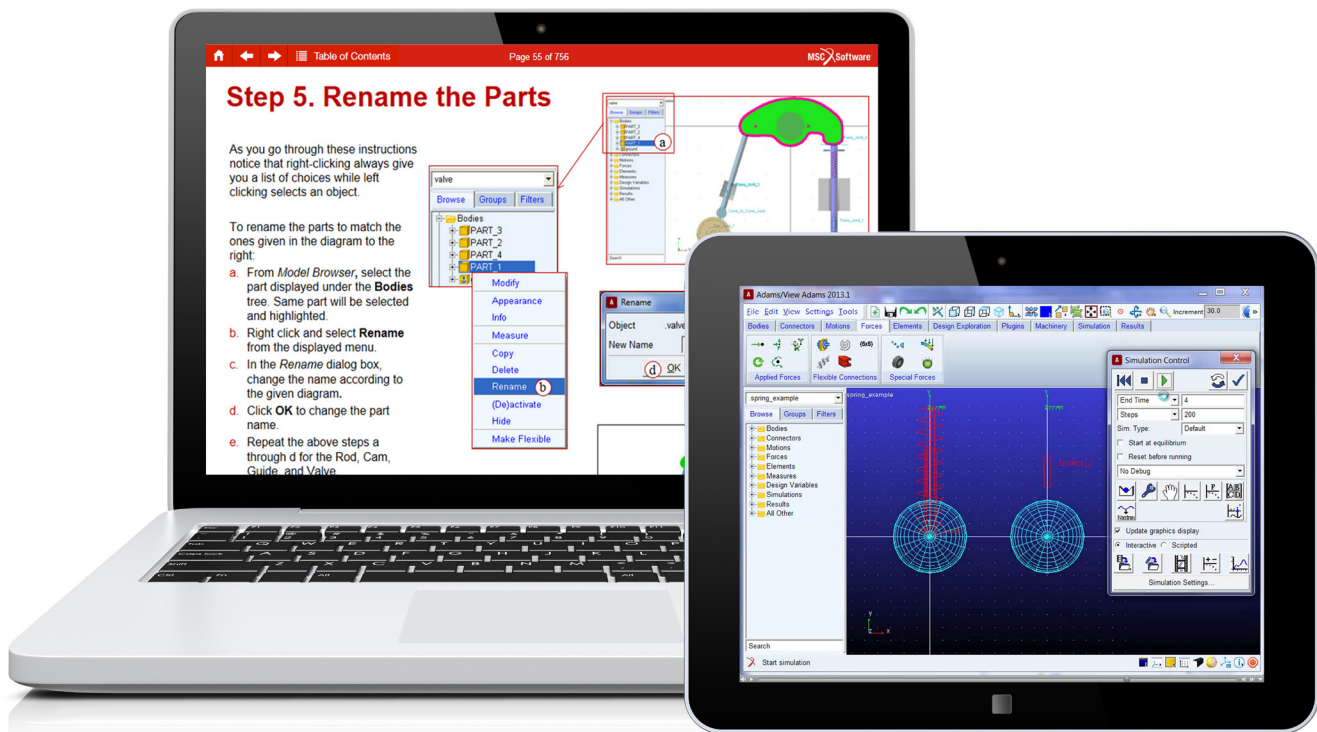


# MSC LearningCenter

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.



## MSC eLearning 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, and Marc with courses being added 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

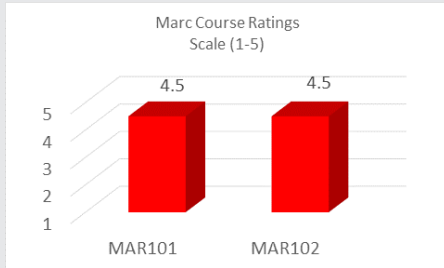
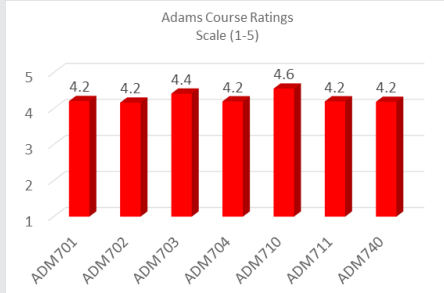
*\* For courses not yet converted to the online format described above, all course material will be made available, including workshop files via PDF documentation.*

## Social Collaboration

- Each training class has a dedicated support forum for answering course related questions to the experts at MSC and the rest of 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.

## Adams e-Learning Content

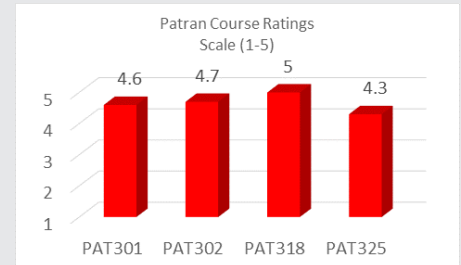
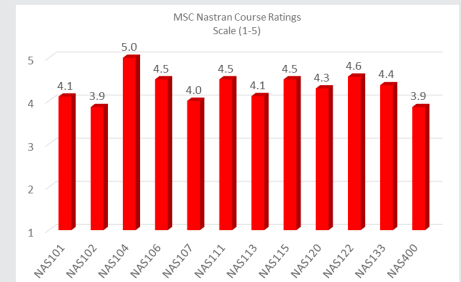
Course	Course Name
ADM701	Complete Multibody Dynamics Analysis with Adams
ADM702	Fundamentals of Multibody Dynamics Analysis with Adams
ADM703A	Advanced Modeling Elements and Techniques with Adams/Solver
ADM703B	Adams/Solver Theory: Achieving Robust, Converged Solutions
ADM703C	Writing User Subroutines in Adams/Solver
ADM704A	Advanced Parametrics, Design Sensitivity, and Optimization using Adams/View
ADM704B	Automating Tasks using Adams/View Scripting, Macros, and GUI Customization
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) Analysis using Adams
ADM740	Vehicle Modeling and Simulation using Adams/Car
ADM750	Gear, Belt, and Chain Modeling with Adams/Machinery

## Marc e-Learning Content

Course	Course Name
MAR101	Basic Nonlinear Analysis using Marc and Mentat
MAR102	Advanced Nonlinear Analysis using Marc and Mentat
MAR103	Elastomer Analysis using Marc and Mentat
MAR106	Electromagnetic Analysis using Marc and Mentat
MAR120	Basic Nonlinear Analysis using Marc and Patran
MAR121	Advanced Nonlinear Analysis using Marc and Patran

## MSC Nastran e-Learning Content

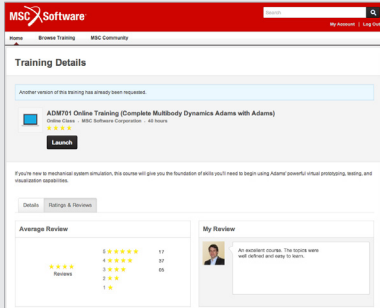
Course	Course Name
NAS120	Linear Static Analysis using MSC Nastran and Patran
NAS133	Contact Analysis using MSC Nastran and Patran
NAS134	Advanced Contact Analysis using MSC Nastran and Patran
NAS101A	Linear Static and Normal Modes Analysis using MSC Nastran
NAS101B	Advanced Linear Analysis using MSC Nastran
NAS102A	Dynamic Analysis using MSC Nastran
NAS102B	Advanced Dynamic Analysis using MSC Nastran
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
NAS111	Aeroelasticity using MSC Nastran
NAS113	Composite Material Analysis using MSC Nastran
NAS122	Basic Dynamic Analysis using MSC Nastran and Patran
NAS123	Implicit Nonlinear Analysis using MSC Nastran and Patran
NAS124	Thermal Analysis using MSC Nastran (SOL400)
NAS400	Implicit Nonlinear Analysis using MSC Nastran and Patran



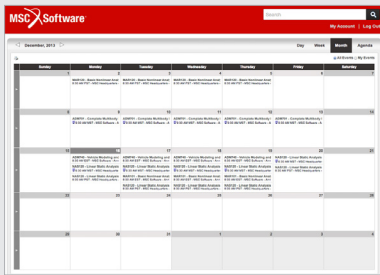
## Patran e-Learning Content

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)
PAT312	Thermal Analysis Using Patran Thermal
PAT318A	Advanced Durability and Fatigue Life Analysis Using MSC Fatigue
PAT318B	Basic Substructure Analysis using MSC Nastran – Primary Superelements
PAT325	Composite Laminate Modeling using Patran

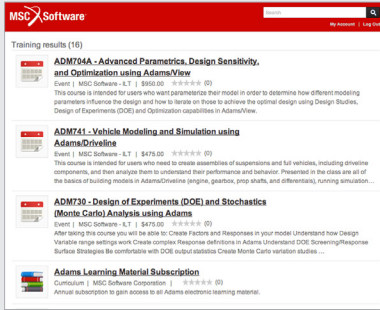




Training courses are rated and reviewed by a community of peers



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
- Audio from the SME is designed to supplement the lecture slides by providing insight and expertise from years of teaching.
- Dynamic table of contents that allows users to quickly browse and jump to any point in the course.
- After class completion, you can take a certification exams that proves your proficiency in the features and skillsets learned in the training course(s).
- Social collaboration via MSC communities that acts as the Face to Face interaction with MSC SME's to support any questions or misunderstanding about the course content.

### SIMPLE NAVIGATION

### LINK TO TECHNICAL FORUMS

**BUILDING GEOMETRY**

- **Properties of geometry**
  - It must belong to a part and moves with the part.
  - It is used to add graphics to enhance the visualization of
  - It is not necessary for performing simulations.
  - Locations and orientations are defined indirectly by parts markers.
- **Workshop Materials >>**

ADM701, Section 9, March 2013  
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**LINK TO WORKSHOP MATERIALS**

**LINK TO TECHNICAL FORUMS**

**DYNAMIC TABLE OF CONTENTS**

**VIDEO/DEMO**

## 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 you to focus on your training; supports your studying process
- Quickly Identify 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 contains up to 50 multiple-choice questions, randomly chosen out of a 200+ 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 form the training details page on your transcript in the MSC Learning Center



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





# MSC LearningCenter

Flexible Training Solutions

MSC Software is one of the ten original software companies and the worldwide leader in multidiscipline simulation. As a trusted partner, MSC Software helps companies improve quality, save time and reduce costs associated with design and test of manufactured products. Academic institutions, researchers, and students employ MSC technology to expand individual knowledge as well as expand the horizon of simulation. MSC Software employs professionals in 20 countries.

**To request a quote or learn more about the  
MSC Learning Center and e-learning subscriptions,**

Visit [www.mscsoftware.com/learningcenter](http://www.mscsoftware.com/learningcenter).

#### Corporate

MSC Software Corporation  
4675 MacArthur Court  
Suite 900  
Newport Beach, CA 92660  
Telephone 714.540.8900  
[www.mscsoftware.com](http://www.mscsoftware.com)

#### Europe, Middle East, Africa

MSC Software GmbH  
Am Moosfeld 13  
81829 Munich, Germany  
Telephone 49.89.431.98.70

#### Japan

MSC Software LTD.  
Shinjuku First West 8F  
23-7 Nishi Shinjuku  
1-Chome, Shinjuku-Ku  
Tokyo, Japan 160-0023  
Telephone 81.3.6911.1200

#### Asia-Pacific

MSC Software (S) Pte. Ltd.  
100 Beach Road  
#16-05 Shaw Towers  
Singapore 189702  
Telephone 65.6272.0082



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