

CAD & PDM Trainings at MCAD

MCAD will meet your needs for training on the CAD or PDM software you use. We can tailor a course to your requirements and conditions, but we also conduct scheduled training regularly. At MCAD you will find fresh training rooms where all participants have access to their own computer. You will have your own training materials which allows you bringing the exercises home and practice in peace and quiet. Refreshments and lunch are included. Training hours between 09:00 and 16:00 with lunch between 12.00 and 13.00. Welcome to an efficient, rewarding and enjoyable training at MCAD. Please contact us for more information □

Training Courses - autumn 2017

Autodesk Inventor:

- **Essentials**
Basics
October 10-13 + November 8-9
- **Essentials, express**
Basic intense
Option 1: September 13-15
Option 2: November 15-17
- **Update**
Update course from Inventor 2016 - 2017
Option 1: October 5
Option 2: November 2
- **Vault Essentials**
Vault Basic Course
On request
- **Advanced Assembly and Machine Design**
Summary Modeling
On request
- **Sheet Metal Design**
Sheet metal design and sheet metal distribution
On request
- **Rendering and Animating with Inventor Studio**
Visualization in Inventor Studio
On request
- **Showcase Essentials**
Visualization with Autodesk Showcase
On request

- **Plant Design**

Plant construction
On request

- **Large Assembly Management**

Large assemblies
On request

- **Advanced Shape**

Advanced modeling party
On request

Autodesk Inventor Professional:

- **Tube and Pipe Design**

Tube
On request

- **Cable and Harness Design**

Electrical Design
On request

- **Strength Analysis**

On request

AutoCAD:

- **AutoCAD Essentials**
AutoCAD Basic Course
On request
- **AutoCAD Mechanical Essentials**
AutoCAD Mechanical Basic Course
Option 1: September 6-8
Option 2: December 6-8
- **AutoCAD Mechanical Update**
AutoCAD Mechanical Update course
On request
- **AutoCAD Electrical**
On request
- **ELPROCAD Pro**
On request
- **ELPROCAD IC Plan**
On request
- **AutoCAD P & ID**
On request
- **AutoCAD Plant 3D**
On request

NavisWorks

- **NavisWorks Essentials**
On request
- **PDM introduction**
On request

Description of MCADs courses

Autodesk Inventor

Essentials

Training Materials: Introduction to Solid Modeling

Autodesk Official Courseware in English.

Course duration: 4 +2 days

Prerequisites: Computer skills, able to read English subtitles.

3D modeling. This training is intended for those who have not used Inventor before and want to get a solid foundation to stand on. Once you completed this training you will have a good knowledge of how to create drawings, assemblies and parts.

Essentials, express

Training Materials: Introduction to Solid Modeling

Autodesk Official Courseware in English.

Course Length: 3 days

Prerequisites: Knowledge of 3D parametric solid modeling system, able to read English subtitles.

Inventor Basics Intensive is for those who have good knowledge of any 3D parametric solid modeling systems. For example, SolidWorks, Pro / Engineer, Solid Edge, Catia, V5, UG NX or Mechanical Desktop. The course content is the

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same as in regular basic course. This course is also suitable for those who want to brush up on their skills in Inventor.

Update

Training materials: Transition from Inventor X, Autodesk Official Courseware in English.

Course Length: 1 day

Prerequisites: Good knowledge of Inventor, able to read English subtitles.

For Autodesk Inventor Suite latest version from the previous version. Inventor develops rapidly. Stay up to date with the program so that your approach is as effective as possible.

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Vault

Training Materials: MCAD's own material.
Course Length: 1 day
Prerequisites: Knowledge of Inventor.

Handling documents. This training is aimed primarily at management of CAD documents. This course gives you the ability to understand and effectively use this tool. The course is included in the Autodesk Inventor Basics, but is also available as standalone.

Advanced Assembly and Machine Design

Training Materials: Advanced Assembly and Machine Design, Autodesk Official Courseware in English.
Course Length: 2 days
Prerequisites: Good knowledge of Inventor, able to read English subtitles.

The course is almost a MUST for anyone working with machine design in Inventor. The course covers best practices and advanced features for collation handling. Standard components, welded assemblies, steel beam construction, adaptively and variant compilations are parts of the course.

Sheet Metal Design

Training Materials: Inventor Sheet Metal Design, Autodesk Official Courseware in English.
Course Length: 2 days
Prerequisites: Good knowledge of Inventor, able to read English subtitles.

Get started with Inventor sheet metal module. Create plates directly in the compilation, brood them out and create the base ready for manufacturing.

Rendering and Animating with Inventor Studio

Visualization in Inventor Studio
Training Materials: Inventor Rendering and Animation in Inventor Studio, Autodesk Official Courseware in English.
Course Length: 2 days
Prerequisites: Good knowledge of Inventor, able to read English subtitles.

Topics in Visualization in Inventor Studio. Inventor Studio included in Inventor, learn to create images and movies of your designs.

Autodesk Showcase

Essentials

Visualization

Course Length: 1 day
Prerequisites: Computer skills.

Use Autodesk Showcase for creating realistic images based on your CAD data and evaluate various design options for communicating ideas.

Plant Design

Training Materials: MCAD's own material.
Course Length: 2 days
Prerequisites: Good knowledge of Inventor, able to read English subtitles.

The plant Billings Construction puts special demands on working. In this course, we'll look at the tools and methods that are suitable for plant construction.

Large Assembly Management

Training Materials: MCAD's own material.
Course Length: 2 days
Prerequisites: Good knowledge in Inventor.

In this course you will learn the tools for managing large assemblies. Tackling large assemblies with the right methodology is a vital part of the course.

Advanced shape in Inventor

Training Materials: Inventor Complex Shape, Autodesk Official Courseware in English.
Course Length: 2 days
Prerequisites: Good knowledge of Inventor, able to read English subtitles.

It's not always easy to get to the exact shape of a plastic part, a molding tool or machine that you need to construct. Let us teach you how to facilitate this by using a new technique which we call Advanced shape.

Autodesk Inventor Professional

Tube and Pipe Design

Training Materials: Inventor Tube and Pipe Design, Autodesk Official Courseware in English. Course Length: 2 days
Prerequisites: Good knowledge of Inventor, able to read English subtitles.

Learn the capabilities of Inventor Professional Pipe.

Cable and Harness Design

Training materials: MCAD's own material. Course Length: 2 days
Prerequisites: Good knowledge of Inventor, able to read English subtitles.

Learn the capabilities of Inventor Professional Cable and Harness.

Stress analysis - FEM

Training Materials: Own material in English. Course Length: 3 days
Prerequisites: Good knowledge of Inventor.

Each participant will after the course have a basic knowledge of:

- Structural Mechanics and Finite Element Method
- Inventor Stress Analysis
 - Capabilities and Limitations
 - Work Flow
 - Interpret and Present Results
 - FEM Results in Vault (PDM)
- Result Reliability: Convergence Study
- Assembly Analysis and Contacts
 - Bolted Connection
 - Welded Connection
- Parametric Stud
- Analysis of Thin Bodies: Shell Elements
- Modal Analysis
- Other Environments
 - Frame Analysis
 - Dynamic Simulation for Stress Analysis (short review)

AutoCAD

AutoCAD Essential

Training Materials: MCAD's own material. Course Length: 3 days
Prerequisites: Computer skills, able to read English subtitles.

The basic version of the bestselling CAD software.

AutoCAD Mechanical

AutoCAD Mechanical Essential

Training Materials: MCAD's own material. Course Length: 3 days
Prerequisites: Computer skills, able to read English subtitles.

Mechanics Customized version of AutoCAD software with many features that help the designer in his work. You will receive a thorough review how to use AutoCAD 2D.

AutoCAD Mechanical Update

Training Materials: MCAD's own material. Course Length: 1 day
Prerequisites: Good knowledge of AutoCAD Mechanical, able to read English subtitles.

For AutoCAD Mechanicals latest version from the previous version. We review and practice to new functions and features.

AutoCAD Electrical

AutoCAD Electrical Essential

Training Materials: AutoCAD Electrical Essential, Autodesk Official Courseware in English. Course Length: 3 days
Prerequisites: Good knowledge in AutoCAD, able to read English subtitles.

AutoCAD Electrical with many features that help the designer in his work. We give you a thorough review of AutoCAD Electrical.

ELPROCAD Pro

ELPROCAD Pro Basics

Training Materials: MCAD´s own material.

Course Length: 3 days

Prerequisites: Computer skills

Electricity application with many features that help the designer in his work. We give you a thorough review of ELPROCAD Pro.

ELPROCAD ic Plan

Training Materials: MCAD´s own material.

Course Length: 2 days

Prerequisites: Computer skills

After completing training with us you will be able to make schematic diagram for power and telecommunications, central specification and single line diagrams.

AutoCAD P & ID

Training Materials: AutoCAD P & ID Essentials Autodesk Official Courseware in English. Course Length: 2 days

Prerequisites: Good knowledge in AutoCAD, able to read English subtitles.

Customized version of AutoCAD software specifically for the drawing of the process diagram. We give you a thorough review of AutoCAD P & ID.

AutoCAD Plant 3D

Training Materials: AutoCAD Plant 3D Essentials Autodesk Official Courseware in English.

Cours Length: 3 days

Prerequisites: AutoCAD able to read English subtitles. For people who have not drawn process diagrams before, we recommend AutoCAD P&ID Essentilas.

AutoCAD Plant 3D brings you as a designer of process diagrams ability to draw in 3D. We give you a thorough review of AutoCAD Plant 3D.

NavisWorks

Training Materials: NavisWorks Essentials, Autodesk Official Courseware in English.

Course Length: 2 days

Prerequisites: Computer skills, able to read English subtitles.

NavisWorks have the right tools for you as a project coordinator. Create a picture of the whole project by combining 2D and 3D data from different CAD systems. The tools used to simulate processes and analyze problems, gives you the opportunity to make changes before costly failures occur. We give you a thorough review of NavisWorks.

PDM Introduction

Training Materials: MCAD´s own material.

Course Length: 1 day

Prerequisites: None.

The course is divided into two parts and forms part of MCADs PDM implementation model. In the morning, we offer PDM theory and in the afternoon PDM practice. The program provides participants with a good understanding of common PDM objects and their relationships and use, and how the possible inclusion should be handled.

Pricing

The scheduled courses cost 3900 SEK per day and per person, including documentation, lunch and refreshments. The price is for a minimum of three and maximum of six participants. For prices on other courses, please contact us.