

## Introduction to SolidWorks

**Length:** 5 Days

**Summary:** This course contains a series of seventeen tutorial style lessons designed to introduce SolidWorks, solid modeling and parametric modeling techniques and concepts. This course introduces SolidWorks on a step-by-step basis, starting with constructing basic shapes, all the way through to the creation of assembly drawings and motion analysis.

This course takes a hands on, exercise intensive approach to all the important parametric modeling techniques and concepts. Each lesson introduces a new set of commands and concepts, building on previous lessons. The lessons guide the user from constructing basic shapes to building intelligent solid models, assemblies and creating multi-view drawings.

This course also covers some of the more advanced features of SolidWorks, including how to use the SolidWorks Design Library, basic motion analysis, collision detection and analysis with SimulationXpress.

The exercises in the course cover the performance tasks that are included on the Certified SOLIDWORKS Associate (CSWA) Examination. Reference guides located at the front of the training guide and in each chapter show where these performance tasks are covered.

This course also introduces you to the general principles of 3D printing including a brief history of 3D printing, the types of 3D printing technologies, commonly used filaments, and the basic procedure for printing a 3D model. 3D printing makes it easier than ever for anyone to start turning their designs into physical objects and by the end of this course you will be ready to start printing out your own designs.

**Prerequisites:**

- Access to the current version of the software.

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## COURSE CONTENT

- Teaches you SolidWorks and parametric modeling with hands on tutorials
- Also covers sheet metal, SimulationXpress, basic motion analysis, collision detection and more
- Prepares you to take the Certified SolidWorks Associate Exam
- Includes a content introducing you to 3D printing