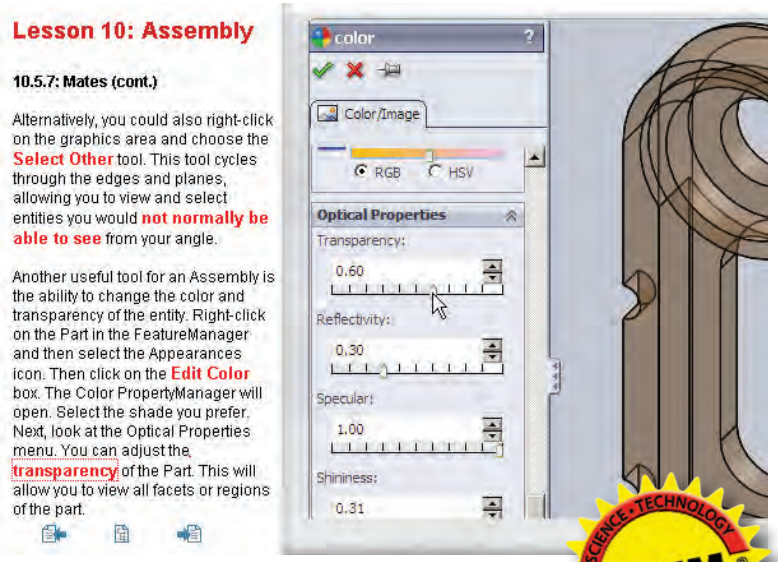
Computer-aided Design (CAD) with SolidWorks®

Engineering



Virtual Course

Computer-aided Design (CAD) with SolidWorks includes everything you need for successful blended learning.

Through LearnMate®, essential resources are provided for both students and teachers.

- Students are always one click away from help files and audio available on each page.
- Teachers have instant access to handouts, tips and detailed activity instructions.

CAD with SolidWorks is ideal for any engineering or automated manufacturing program, providing a thorough and engaging element of STEM (Science, Technology, Engineering and Mathematics) education.

**SolidWorks software not included.*

Computer-aided Design (CAD) with SolidWorks teaches how to use SolidWorks® 3D mechanical design software* by means of a project-based design tutorial. This course fast-tracks students through many advanced features of Solidworks, exposing them quickly to the power of 3D modeling.

Assuming no prior knowledge, Computer-aided Design (CAD) with SolidWorks takes students step-by-step through the process of building a complex six-part rotary stamp assembly. In this way, students obtain a comprehensive introduction to all the capabilities of the SolidWorks tool for parametric models of parts and assemblies. Each and every part designed is made from scratch by students from the ground up, using mulitple techniques within the software to accomplish the design.

- Software screen videos of every step enhance the on-screen text instructions, enabling students to follow the workflow.
- Review questions reinforce student comprehension of concepts and procedures
- The course concludes with an open-ended design challenge in which students model thier own handle for the rotary stamp.

POWERED BY

intelitek's engineering courses are powered by LearnMate®, intelitek's innovative e-learning platform. Self-paced interactive LearnMate content may be deployed stand-alone or through the robust learning management system (LMS). LearnMate provides everything needed for the ultimate blended learning experience.

- SCORM-compliant interactive content
- Anytime, anywhere accessibility
- Student and class management
- Grade tracking
- Skill/competency reporting mapped to national skill standards

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CAD with SolidWorks Specifications

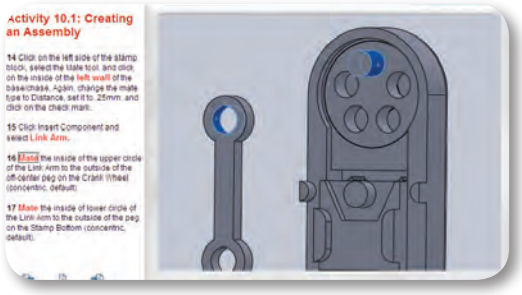
Order # 16-3108

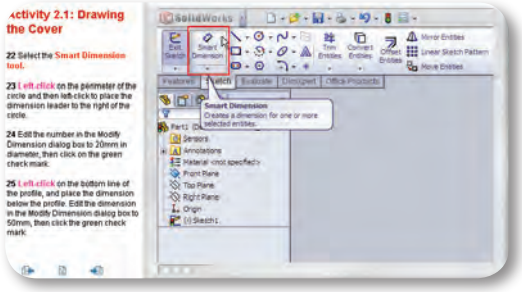
- LearnMate® E-Learning Content: Computer-aided Design (CAD) with SolidWorks

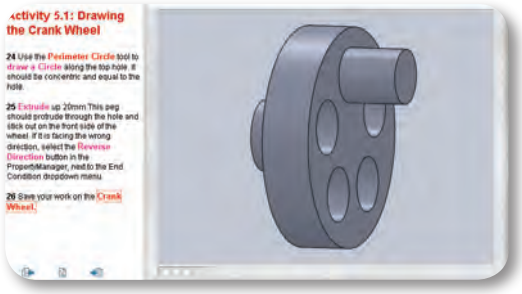
**SolidWorks software not included.*

Course Outline (Lab and Virtual)

Lesson 1: Introduction to SolidWorks
Lesson 2: Sketching the Cover
Lesson 3: Extruding the Cover
Lesson 4: Working Drawings
Lesson 5: Drawing the Crank Wheel
Lesson 6: Drawing the Link Arm
Lesson 7: Drawing the Base
Lesson 8: Drawing the Stamp Block
Lesson 9: Adding Text
Lesson 10: Assembly
Project: Crank Handle







Affiliated with:

SkillsUSA® TEEA

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Engineering Program

CAD with SolidWorks guides students through the steps to create a working part that can be produced on a 3D printer!

Bringing designs to life with a working 3D model serves to engage students and deliver a deeper understanding of concepts learned.

By producing and assembling the individual parts into a working mechanism, students see how the design process translates into production.

Bring all these benefits to your students by adding the Solido SD300 Pro desktop 3D printer to your lab!

This affordable and easy-to-use 3D Printer is the perfect classroom solution, requiring

- no post-processing
- no chemical bath
- no curing time

Simply send your 3D data file to the printer, remove the model when finished and remove the support material from the model - no harsh chemicals or special instruments required.

The plastic sheet lamination technology produces durable, flexible and transparent models that can be drilled, machined, finished and do not distort over time. No other 3D printer offers such a combination of ease-ofuse, safe operation and versatile model material. Bring rapid prototyping technology to your engineering program with this simple-to-use and cost-effective solution!

Make CAD with SolidWorks part of a comprehensive STEM program!

Foundations Program courses are an excellent launching point for more in-depth programs in engineering, mechatronics, automation, advanced manufacturing and more!

Engineering® Precision Machining® Robotics® Rapid Prototyping®

Industrial Maintenance® Mechatronics® Advanced Manufacturing®

STEM® Science • Technology • Engineering • Mathematics

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