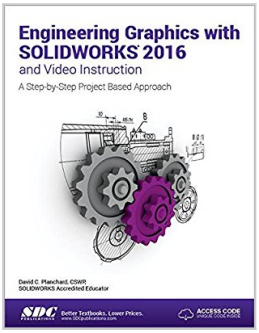

Engineering Graphics with SOLIDWORKS 2016 and Video Instruction

By David Planchard

Engineering Graphics with SOLIDWORKS 2016 and Video Instruction By David Planchard

Engineering Graphics with SOLIDWORKS 2016 and video instruction is written to assist the technical school, two year college, four year university instructor/student or industry professional that is a beginner or intermediate SOLIDWORKS user. The book combines the fundamentals of engineering graphics and dimensioning practices with a step-by-step project based approach to learning SOLIDWORKS with video instructions. Learn by doing, not just by reading.

The book is divided into four sections: Chapters 1 - 3 explore the history of engineering graphics, manual sketching techniques, orthographic projection, Third vs. First angle projection, multi-view drawings, dimensioning practices (ASME Y14.5-2009 standard), line type, fit type, tolerance, fasteners in general, general thread notes and the history of CAD leading to the development of SOLIDWORKS.

Chapters 4 - 9 explore the SOLIDWORKS User Interface and CommandManager, Document and System properties, simple machine parts, simple and complex assemblies, proper design intent, design tables, configurations, multi-sheet, multi-view drawings, BOMs, and Revision tables using basic and advanced features.

Follow the step-by-step instructions in over 80 activities to develop eight parts, four sub-assemblies, three drawings and six document templates.

Chapter 10 provides a section on the Certified Associate - Mechanical Design (CSWA) program with sample exam questions and initial and final SOLIDWORKS models.

Chapter 11 provides a section on Additive Manufacturing (3D printing) and its benefits and features. Understand the terms and technology used in low cost 3D printers.

Review individual features, commands, and tools using the video instruction and

SOLIDWORKS Help. The chapter exercises analyze and examine usage competencies based on the chapter objectives. The book is designed to complement the SOLIDWORKS Tutorials located in the SOLIDWORKS Help menu.

Desired outcomes and usage competencies are listed for each project. Know your objectives up front. Follow the step-by step procedures to achieve your design goals. Work between multiple documents, features, commands, and properties that represent how engineers and designers utilize SOLIDWORKS in industry. The author developed the industry scenarios by combining his own industry experience with the knowledge of engineers, department managers, vendors, and manufacturers.

These professionals are directly involved with SOLIDWORKS every day. Their responsibilities go far beyond the creation of just a 3D model.

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Editorial Review

About the Author

David Planchard is the founder of D&M Education LLC. Before starting D&M Education, he spent over 27 years in industry and academia holding various engineering, marketing, and teaching positions. He holds five U.S. patents. He has published and authored numerous papers on Machine Design, Product Design, Mechanics of Materials, and Solid Modeling. He is an active member of the SOLIDWORKS Users Group and the American Society of Engineering Education (ASEE). David holds a BSME, MSM with the following professional certifications: CCAI, CCNP, CSDA, CSWSA-FEA, CSWP, CSWP-DRWT and SOLIDWORKS Accredited Educator. David is a SOLIDWORKS Solution Partner, an Adjunct Faculty member and the SAE advisor at Worcester Polytechnic Institute in the Mechanical Engineering department. In 2012, David s senior Major Qualifying Project team (senior capstone) won first place in the Mechanical Engineering department at WPI. In 2014 and 2015, David s senior Major Qualifying Project team won the Provost award in Mechanical Engineering for design excellence.

David Planchard is the author of the following books:

- SOLIDWORKS 2016 Reference Guide with Video Instruction, 2015, 2014 2013, 2012, 2011, 2010, 2009 and 2008
- Engineering Design with SOLIDWORKS 2016 and Video Instruction, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2001Plus, 2001 and 1999
- Engineering Graphics with SOLIDWORKS 2016 and Video Instruction, 2015, 2014, 2013, 2012, 2011, 2010
- SOLIDWORKS 2016 in 5 Hours with Video Instruction, 2015, 2014
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- Drawing and Detailing with SOLIDWORKS 2014, 2012, 2010, 2009, 2008, 2007, 2006, 2005, 2004, 2003, 2002 and 2001/2001Plus
- Official Certified SOLIDWORKS Professional (CSWP) Certification Guide with Video Instruction, Version 3: 2014-2012 Version 2, 2013-2012; Version 1, 2011, 2010
- Official Guide to Certified SOLIDWORKS Associate Exams: CSWA, CSDA, CSWSA-FEA Version 2: 2015 - 2012, Version 1: 2013, 2012
- Assembly Modeling with SOLIDWORKS 2012, 2010, 2008, 2006, 2005-2004, 2003 and 2001Plus
- Applications in Sheet Metal Using Pro/SHEETMETAL & Pro/ENGINEER

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