



GD&T ESSENTIALS AND  
FUNDAMENTAL SKILLS

COMPLETED BY

**ELLIOTT RICHTER**

ON

OCT 05, 2019

ISSUED BY



# TECHNICAL CERTIFICATE

| GD&T ESSENTIALS AND  
FUNDAMENTAL SKILLS

Course Description:

Build a foundation in Geometric Dimensioning and Tolerancing (GD&T) and understand ways to communicate the functional intent of designs. GD&T is a set of rules, symbols, and tools that allow you to control the critical features of a design to ensure its proper function. You'll have a head start on the design process, saving on both budget and time, by having a basic background of GD&T, its terminology, and the importance of Rule #1. You'll also get a primer on material modifiers, datums, symbols and feature control frames.

Verified certificate by SolidProfessor

<https://solidprofessor.com/certificates?id=3DBE57FC-F58C-49CA-B9A5-2895CBBFEBBD>



SPATIAL VISUALIZATION

COMPLETED BY

**ELLIOTT RICHTER**

ON

SEP 26, 2019

ISSUED BY



# TECHNICAL CERTIFICATE

2019 | SPATIAL VISUALIZATION

Course Description:

Master the spatial visualization skills necessary to mentally manipulate 3D objects and interpret engineering graphics. These skills have been directly correlated to success in engineering and other technological fields. Increase your ability to communicate ideas, specifications, and designs with other engineers, designers, and manufacturers.

Verified certificate by SolidProfessor

<https://solidprofessor.com/certificates?id=AC7AB2B7-236E-4462-8FA2-B1DA7925D0F6>



SOLIDWORKS CERTIFIED  
ASSOCIATE PREPARATION  
COURSE  
COMPLETED BY

**ELLIOTT RICHTER**

ON  
OCT 25, 2019

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# TECHNICAL CERTIFICATE

2019 | SOLIDWORKS CERTIFIED  
ASSOCIATE PREPARATION COURSE

## Course Description:

This course is a combination of lessons from Introduction to SOLIDWORKS, SimulationXpress, and the CSWA Prep course. These segments provide instructors and students with a suggested outline to learn the essential tools, functions, and skills in SOLIDWORKS required to pass the CSWA exam.

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SOLIDWORKS DRAWINGS

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# TECHNICAL CERTIFICATE

2019 | SOLIDWORKS DRAWINGS

Course Description:

Explore common techniques for creating drawings based on 3D parts and assemblies. Add drawing views, dimensions, annotations, and more. Create exploded views, balloons, parts lists, bill of materials, and assembly section views for assembly drawings.

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SOLIDWORKS  
SIMULATIONXPRESS

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Learn everything you need to know to begin validating designs in SOLIDWORKS SimulationXpress with step-by-step instructions for running a study and optimizing a part to meet design criteria.

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GD&T PROFILE, LOCATION,  
AND RUNOUT SYMBOLS

COMPLETED BY

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ON

OCT 07, 2019

ISSUED BY



# TECHNICAL CERTIFICATE

| GD&T PROFILE, LOCATION, AND  
RUNOUT SYMBOLS

Course Description:

Control the form and orientation of your design by learning common GD&T symbols. You'll learn how the profile, concentricity, and runout symbols are used in real-world applications and how to avoid incorrect use. Control the outline of a part feature and the surface elements with profile tolerances. Assure the functionality and stability of assembly and part designs by applying profile, location, and runout tolerances. We recommend taking this course after GD&T form and orientation controls.

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SOLIDPROFESSOR'S PREP  
COURSE FOR THE CSWA  
EXAM  
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# TECHNICAL CERTIFICATE

2018 | SOLIDPROFESSOR'S PREP  
COURSE FOR THE CSWA EXAM

## Course Description:

Gain access to the tools needed to pass the CSWA exam. Get familiar with the structure and style of the exam, walk through sample exercises from every aspect of the test, and multiple choice sections covering part design and assembly modeling. Plus, get ready to ace the exam with sample test examples and a practice test.

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INTRODUCTION TO 3D  
PRINTING

COMPLETED BY

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ON

SEP 30, 2019

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# TECHNICAL CERTIFICATE

2017 | INTRODUCTION TO 3D PRINTING

## Course Description:

Build an understanding of all aspects of 3D printing, including the technology, terminology, materials, workflow, and cost. Get inspired with ideas on how to use 3D printing in your designs, and review available software to create, manipulate, and prepare designs to be printed.

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Course Description:

A quick introduction to 3D parametric modeling. In just a few hours, learn how to navigate the SOLIDWORKS interface, create sketches, set up parametric relationships, and create 3D models. In addition, explore the basics of creating assemblies and generating 2D production drawings of both parts and assemblies.

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ENGINEERING GRAPHICS

COMPLETED BY

**ELLIOTT RICHTER**

ON

SEP 27, 2019

ISSUED BY



# TECHNICAL CERTIFICATE

2019 | ENGINEERING GRAPHICS

Course Description:

Learn to clearly communicate a design's geometry and specifications by using the universal language that is known as Engineering Graphics. You'll use 2D imagery to interpret and convey important manufacturing data such as the geometry and dimensions of a part, the tolerances required to allow the part to work as intended, material, finish, and other specifications.

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GD&T FORM AND  
ORIENTATION CONTROLS

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ON

OCT 06, 2019

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| GD&T FORM AND ORIENTATION  
CONTROLS

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Apply two different sets of GD&T symbols: form tolerances and orientation tolerances to continue building your knowledge of GD&T. Get a clear understanding of how these symbols appear on engineering drawings, and when and where certain symbols should be applied. Knowing what GD&T symbols represent gives you the ability to quickly assess if your engineering drawings and designs meet basic standards. This course is best taken after completing our GD&T Essentials and Fundamental Skills course.

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