

Engineering Drawing Requirements One-Day Workshop

Based on ASME Y14.100-2004



Course Developer: Alex Krulikowski, President of Effective Training Inc.

Learn GD&T from the experts. Professionals across the globe turn to ETI for training in geometric dimensioning and tolerancing. ETI's president, Alex Krulikowski, has helped more than 60,000 students learn GD&T through his textbooks, self-study courses, computer-based training programs, and online learning center. Now you have the opportunity to learn GD&T in a course developed by Alex at an ETI public workshop.

Learning to interpret and apply GD&T properly will help you and your company:

- Save money at the design stage
- Enable global sourcing
- Reduce drawing errors
- Increase productivity
- Increase part tolerances
- Assure that mating parts will assemble
- Eliminate scrap
- Improve inspection accuracy

About the Course

Correctly interpreting engineering drawings has a direct impact on the final product. ETI's one-day Engineering Drawing Requirements course explains how to correctly interpret drawings. It will improve a student's understanding of engineering drawings and result in more effective communication on the job.

Westland, Michigan

May 18

Who Should Attend

This workshop is designed for anyone who interprets engineering drawings: product, manufacturing, and quality engineers; inspectors; machinists; production personnel; purchasing agents; etc.

Workshop Highlights

Working with engineering drawings involves analyzing, making decisions, and processing data. The Engineering Drawings Requirements workshop is based on practical applications of print interpretation. It will give you a better understanding of the view representation, dimensions, tolerances, and symbols used on prints.

This hands-on workshop is based on ASME standards and common industry practices. It contains a series of goals and objectives and includes numerous practice problems. If pre-arranged, your company drawings can be used in the workshop exercises.

Each workshop participant receives:

- An *Engineering Drawing Requirements* workbook
- A *GD&T Ultimate Pocket Guide (ASME Y14.5M-1994)*
- Class handouts
- An official certificate of completion
- Continental breakfast, morning and afternoon snacks

PLUS

ETI's Digital Design Dictionary software (\$79 value)



Quantity discounts available.

ETI offers a 10% discount on three or more registrations. Call 1-800-886-0909 for more information.



Effective Training Inc.
www.etinews.com

Enrollment is limited to 15 seats. Call 1-800-886-0909 or visit our website to register, today.

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Course Agenda and Highlights

The one-day workshop is based on practical applications of drawing interpretation. Topics covered include:

Engineering Drawings

Engineering drawings
CAD
Purpose and importance of engineering drawings
Standards used on engineering drawings
ASME Y14.100
Types of engineering drawings
Layout and assembly drawings
Inseparable and detail assembly drawings
Detail, monodetail and multidetail drawings

Drawing Formats

Drawing sheet sizes
Drawing zones
Title blocks
Revisions blocks
Angle of projection
Engineering drawing units
Parts lists
General, local, and flag notes
Drawing scale
Multi-sheet drawings

Line Conventions and Lettering

Line types on drawings
Functions represented by line type
Hierarchy of line types
Lettering

Drawing Views

Orthographic projection
Projection systems
Single view and multiview drawings
Detail, auxiliary, and assembly views

Drawing Sections

Section views
Eight types of section views
Conventional vs. true geometry
Revolution of features
Sectioning of assemblies

Dimensioning and Tolerancing

Practices for metric and English unit dimensions
Expressing tolerance
General tolerances
Definitions
Implied and coaxial relationships
General symbols and abbreviations
Thread, gear, and spline representation
Thread, gear, and spline specifications
GD&T standards
GD&T symbols
Uses of GD&T

Surface Texture

Surface texture standards
Definition of surface texture
ASME surface texture symbols
Exercise seven

Weld Symbols

Weld specifications
Common weld types
Common weld joints

Complete 2012 ETI public workshop schedule:

Advanced Concepts of GD&T (ASME Y14.5M-1994) 2-Day: March 28-29, September 19-20

ASME Y14.5 1994 to 2009 Update 1-Day: May 17

Engineering Drawing Requirements (ASME Y14.100-2004) 1-Day: May 16

Fundamentals of GD&T 2-Day:

1994 Standard: March 26-27, September 17-18

2009 Standard: April 16-17, October 8-9

Fundamentals of GD&T for Inspectors (ASME Y14.5M-1994) 2-Day: May 14-15

ISO Geometrical Tolerancing (ISO 1101:2004) 2-Day: April 18-19, October 15-16

Solid Model Tolerancing (ASME Y14.41-2003) 1-Day: May 18

Statistical Tolerance Stacks 1-Day: April 25, October 12

Tolerance Stacks 2-Day: April 23-24, October 10-11



Visit www.etinews.com for more details, pricing, and registration information.

Call 1-800-886-0909 or visit our website to enroll today.