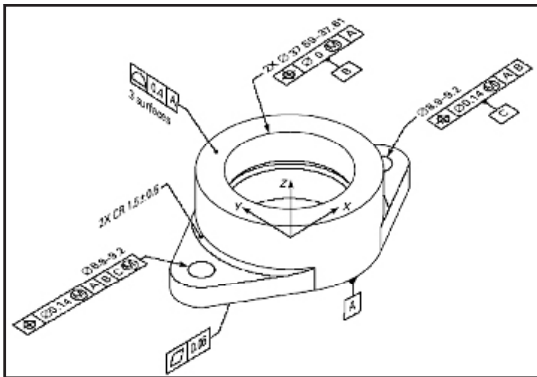


## Solid Model Tolerancing One-Day Workshop

Based on ASME Y14.41-2003

Exclusively from ETI, the Solid Model Tolerancing Workshop will help you to understand the benefits of a math-based product development process. You'll learn:

- How to use solid models to eliminate 2D drawings
- How to apply GD&T to solid models
- The new symbols and conventions used in Y14.41
- The changes required in GD&T when tolerancing solid models
- The annotated model method and the drawing plus model method from Y14.41
- Six factors to determine which method is best for your organization
- The issues and challenges encountered when adopting the tolerancing of solid models
- How to use the flexibility in Y14.41 for a practical transition to a math-based development process
- Six organizational issues that must be addressed when implementing solid models to replace drawings



**Course Developer: Alex Krulikowski,  
President of Effective Training**

**Westland, Michigan**

**Wednesday, May 21**

The solid model tolerancing course was developed by Alex Krulikowski, Chairman of the Y14.41 Standard Committee. This workshop will teach you to become familiar with the ASME Y14.41-2003 Standard on Digital Product Definition Data Sets.

You'll also learn about some of the gaps, issues and challenges facing industry in transitioning to a math-based product development process.

### Who Should Attend

This course intended for designers, engineers, and managers who are considering implementation of a math-based product development process.

### Workshop Highlights

The Y14.41 Standard establishes requirements for preparing, organizing and interpreting 3D digital product images. You'll learn the two major methods for tolerancing solid models in accordance with Y14.41: how to create model and drawing (reduced dimension drawings) as a data set and how to annotate models. The Solid Model Tolerancing course is not based on any single CAD system or product development process. It covers concepts and standards that can be applied with a number of CAD systems.

### Each workshop participant receives:

- A copy of the ASME Y14.41-2003 Standard
- A *Digital Product Definition Workbook*
- An official certificate of completion
- Continental breakfast, morning and afternoon snacks

**PLUS**

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



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

## Solid Model Tolerancing One-Day Workshop

Based on ASME Y14.41-2003

### The one-day workshop covers:

#### Introduction

Characteristics and problems of current product development processes  
Explanation of math-based product development processes  
The role of standards in implementing math-based product development processes

#### General information on the Y14.41 Standard

History of the standard  
Terms used in the standard  
Data set concept  
Two options for creating data sets  
How to determine which method is best for your organization

#### Requirements common for annotated model and model & drawing data sets

Data set requirements  
Design model requirements  
Display management  
Model values  
Resolved dimensions  
Basic dimensions  
Size dimensions

#### Model and drawing data sets

Data set and general method requirements  
Work coordinate systems  
Using section views  
Presentation of dimensions in axonometric views  
Datum applications  
Geometric tolerances

#### Annotated model data sets

Data set and general model requirements  
Views on annotated models  
Model requirements  
Resolved dimensions  
Datum applications  
Geometric tolerances

#### Gaps, issues, and challenges for industry

Gaps, issues, and challenges  
Future trends

#### Why it is important to use Y14.41

Benefits of using the standard  
How to purchase the standard  
Creating an addendum to the standard



#### Quantity discounts available.

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

### 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](http://www.etinews.com) for more details, pricing, and registration information.



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