

Workshop Description – This one-day workshop is a detailed comparison that highlights and explains the differences between ASME Y14.5-1994 and ISO 1101-2004 (and their companion standards). The material is presented in a concise, easily understood manner. It includes a comparison of the specification and interpretation of terms, symbols, and concepts that are present in either or both standards. The workshop includes a series of short lectures, student exercises, and student involvement.

Workshop Prerequisites – The student should have prior knowledge of ASME Y14.5 1994 and its companion standards and want to learn the differences in the ISO 1101-2004 (and its companion standards).

Workshop Goals – There are seven goals in this course:

1. Understand how ASME and ISO standards are developed
2. Understand the advantages and cautions of using ASME & ISO standards
3. Understand the major differences in technical drawing presentation
4. Understand the major differences in ASME and ISO tolerancing terms
5. Understand the major differences between ASME and ISO datum systems
6. Understand the major differences between ASME and ISO geometric tolerancing symbols
7. Understand the differences in ASME and ISO drawings

ASME / ISO Comparison Workshop Agenda		
Lesson	Description	Exercise
	Course goals and introduction	
1	Standards development	1
2	Advantages and cautions of using ASME or ISO standards	2
3	Technical drawing presentation differences	3.1 , 3.2
LUNCH		
4	Comparison of tolerancing terms	4
5	Comparison of datum symbols and concepts	5
6	Comparison of geometric tolerancing symbols	6.1, 6.2
7	Comparison of ASME and ISO drawings	7
8	Course summary, the future direction of ASME Y14 and ISO GPS standards, customer drawing review (time permitting)	