

Engineering Drawing Requirements: How to Interpret Engineering Drawings One- Day Agenda		
<i>Section</i>	<i>Topic</i>	<i>Activities</i>
<i>1 – Engineering Drawings</i>	Engineering drawings CAD Purpose of engineering drawings Importance of engineering drawings Standards used on engineering drawings ASME Y14.100 Types of engineering drawings Layout drawings Assembly drawing Inseparable assembly drawing Detail assembly drawing Detail drawings Monodetail and multidetail drawings	Exercise one
<i>2 – Drawing Formats</i>	Drawing sheet sizes Drawing zones Title and revisions blocks Angle of projection Engineering drawing units Parts lists General, local, and flag notes Drawing scale Multi-sheet drawings	Exercise two
<i>3 – Line Conventions and Lettering</i>	Line types on drawings Functions represented by line type Hierarchy of line types Lettering	Exercise three
<i>4 – Drawing Views</i>	Orthographic projection Projection systems Single view and multiview drawings Detail views Auxiliary views Assembly views	Exercise four
<i>Lunch</i>		
<i>5 – Drawing Sections</i>	Section views Eight types of section views Conventional vs. true geometry Revolution of features Sectioning of assemblies	Exercise five
<i>6 – Dimensioning and Tolerancing</i>	Practices for metric unit dimensions Practices for English unit dimensions Expressing tolerance General tolerances Definitions Implied relationships 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	Exercise six
<i>7 – Surface Texture</i>	Surface texture standards Definition of surface texture ASME surface texture symbols	Exercise seven
<i>8 – Weld Symbols</i>	Weld specifications Common weld types Common weld joints	Exercise eight