



ZI208 Drawing Interpretation Online Course

Week One

- Module 1: Drawing Interpretation Introduction
 - Draw production
 - Standards
 - Design
 - Inspection
- Module 2: Drawing Layout
 - Parts of two-dimensional drawings
 - Sizes and codes

Week Two

- Module 3: Part Views
 - View projection
 - Projection systems
 - Surface types
 - Line types
 - Multiview drawing visualization
 - Exercises
- Module 4: Auxiliary Views
 - Define and recognize auxiliary views
 - Successive auxiliary views
 - Partial Views
 - Secondary auxiliary view
 - Exercise

Week Three

- Module 5: Isometric and Oblique Views
 - Pictorial Views
 - ASME Y14.4 Pictorial Drawings standard/ ASME Y14.41 Digital Product Definition Data Practices standard
 - Axonometric Projection
 - Oblique Projection
 - Exercises
- Module 6: Section Views
 - Section line patterns
 - Section types
 - Exercises
 - Quiz



Week Four

- Module 7: General Dimensioning
 - ASME Y14.5-2009 Dimensioning and Tolerancing standard
 - Feature types
 - Dimension elements
 - Dimension construction
 - General dimensions
 - Exercises
 - Quiz

Week Five

- Module 8: Tolerances
 - Size Features
 - Dimension Expression
 - Terminology
 - Envelope Principle
 - Dimensioning Rules
 - Tolerance Allocation
 - Exercises
 - Quiz
- Module 9: Surface Texture
 - Surface Texture Symbols and Characteristics
 - Proper placement of surface characteristics on a surface texture symbol
 - Exercises
 - Quiz

Week Six

- Module 10: Fasteners
 - Thread Characteristics
 - Thread Notes
 - Thread Drawing Appearance
 - Pipe Threads
 - Thread Uses
 - Washers
 - Nuts
 - Other Threaded Fastener Factors
 - Keys
 - Splines, Gears and Serrations
 - Pins
 - Retaining rings
 - Springs
 - Cams
 - Exercises
 - Quiz



- Module 11: Welding
 - Common weld joints
 - Common weld type symbols
 - Parts of the weld symbol
 - Quiz
- Final Exam