

Course Advancement Exam - Intro to CAD and Architecture Assessment Skills

1. Identify Drafting Equipment. (T-Square, 30-60-90 triangle, 45-45-90 triangle, brush, drafting tape, drafting pencils, drafting paper, drafting board, drafting eraser, drafting shield, and scales/rulers)
2. Identify characteristics of lines. (Hidden, Object, Center, Dimension, Extension)
3. Describe measurement and parts of circles. (Arc, Diameter, Radius)
4. Analyze and determine methods for Mechanical and Architectural drawings.
 - a. Orthographic
 - b. Isometric
 - c. Perspectives
 - d. Elevations
 - e. Floor plan
5. Students must be able to effectively explain physical design and terminology including but not limited to:
 - a. Sketching
 - i. Triangle usage
 - ii. T square usage
 - iii. Pencil line weights
 - iv. Single Stroke Gothic handwriting
 - b. Design process (engineering design loop)
 - c. Measurement (English standard & metric)
 - d. Demonstrate measuring skills.
 - i. Use of a scale
 - ii. Measure to the closest 1/16th of an inch
 - e. Determine correct measuring symbols.
6. Identify current and emerging careers.