South Carolina CTE

Mechanical Design 2 (2018): Course Codes: 6173

DEMONSTRATE SKILLS AND KNOWLEDGE REQUIRED TO PRODUCE TECHNICAL ILLUSTRATIONS (STANDARD ANDMETRIC) MD.K	**1** Draw an isometric projection. MD.K.1
	2 Draw an isometric section. MD.K.2
	3 Draw an oblique projection. MD.K.3
DEMONSTRATE KNOWLEDGE AND SKILLS REQUIRED TO PRODUCE SECTIONAL VIEWS AND APPLYING STANDARD CONVENTIONAL DESIGN PRACTICES MD.L	**1** Demonstrate section line and symbol techniques. MD.L.1
	2 Identify various types of sectional views. MD.L.2
	3 Draw half and full sections. MD.L.3
	4 Draw broken-out sections. MD.L.4
DEMONSTRATE KNOWLEDGE AND SKILLS REQUIRED TO PRODUCE AUXILIARY VIEWS MD.M	**1** Demonstrate the ability to rotate a point, a line, and a surface. MD.M.1
	2 Demonstrate the ability to determine the true length of a line. MD.M.2
	3 Draw a primary auxiliary view. MD.M.3
DEMONSTRATE KNOWLEDGE AND SKILLS REQUIRED TO PRODUCE DETAILED MACHINE DRAWINGS MD.N	**1** Identify use and applications of threads and fasteners. MD.N.1
	2 Draw bolt, nut, and thread styles. MD.N.2
	3 Draw screws, screw heads, pins, and keys. MD.N.3
	4 Identify a fillet and a round, and tell where and why each is used. MD.N.4
	5 Produce a set of detail drawings applying standard machine fits, finishes, and tolerances. MD.N.5
	6 Create a detailed parts list. MD.N.6
	7 Select appropriate drawing layout and scale. MD.N.7

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	8 Extract attribute data. MD.N.8
	9 Produce a machine assembly drawing. MD.N.9
	10 Identify various manufacturing processes. MD.N.10
DEMONSTRATING BASIC SKILLS TO PRODUCE 3-D DRAWINGS MD.O	**1** Create solid models. MD.O.1
	2 Modify solid models. MD.O.2
	3 Produce 2-D projections from 3-D models. MD.O.3