

RTTT Career and Technical Education STEM Program Descriptions

Program Title	Mechanical Drafting 8725300
CTE Courses and Descriptions	<p>The purpose of this program is to prepare students for employment in the mechanical drafting industry.</p> <p>8725310 Mechanical Drafting 5</p> <p>This course is designed to provide instruction in preparing pneumatic and hydraulic drawing.</p> <p>8725010 Drafting 1 (Core) 8725020 Drafting 2 (Core) 8725030 Drafting 3 (Core) 8725040 Drafting 4 (Core)</p> <p>This four-course (Core), project-based drafting technologies program is designed to provide instruction in the following drafting skills, mathematical skills, multi-view and sectional drawings, pictorial drawing, surface development, architectural drawing. Demonstrate an understanding of civil drawing and electrical/electronic literacy, perform basic computer aided drafting skills, demonstrate communication, math, and basic science and how it applied to drafting, demonstrate an understanding of employability skills and entrepreneurship.</p> <p>Students completing the Drafting (Core) are encouraged to complete advanced drafting technology programs in any of the following Architectural, Electrical, Electronic, Mechanical, Structural, Drafting.</p>
Integrated Core Course(s)	Geometry
Teacher Certification(s)	BLDG CONSTR @7G DRAFTING @7G TEC DRAFT @7G TEC CONSTR @7G
Industry Certification(s)	ADDA Drafter Certification (AMDDA001) Autodesk Certified Associate - AutoCAD (ADESK016) Autodesk Certified Professional - AutoCAD Architecture (ADESK022) Autodesk Certified Professional - Revit Architecture (ADESK025)
Number of Articulated Credits	None.
Implementation Costs	<p>Startup Costs (approximate): \$120,000 This is a turnkey 20-seat estimate and includes computers, software, peripheral equipment, furniture, course-specific equipment, textbooks, and training for one teacher. This estimate does not include any instructional technology items such as smart boards, computer projection devices, etc.</p> <p>Recurring Costs (approximate): \$8,000 This includes software lease renewals and replacement consumables.</p>
Recommended Feeder Programs/Course	None currently available