

## RTTT Career and Technical Education STEM Program Descriptions

<b>Program Title</b>	<b>Structural Drafting 8725500</b>
<b>CTE Courses and Descriptions</b>	<p>The purpose of this program is to prepare students for employment in the structural drafting industry.</p> <p><b>8725550 Structural Drafting 5</b></p> <p>This course is designed to provide instruction in map drawing and computer aided map details.</p> <p>8725010 Drafting I (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>
<b>Integrated Core Course(s)</b>	Geometry
<b>Teacher Certification(s)</b>	BLDG CONSTR @7G DRAFTING @7G TEC DRAFT @7G TEC CONSTR @7G
<b>Industry Certification(s)</b>	ADDA Drafter Certification (AMDDA001) Autodesk Certified Associate - AutoCAD (ADESK016) Autodesk Certified Professional - AutoCAD Architecture (ADESK022) Autodesk Certified Professional - Revit Architecture (ADESK025)
<b>Number of Articulated Credits</b>	None.
<b>Implementation Costs</b>	<p><b>Startup Costs (approximate): \$120,000</b>              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><b>Recurring Costs (approximate): \$8,000</b>              This includes software lease renewals and replacement consumables.</p>
<b>Recommended Feeder Programs/Course</b>	None currently available