

Advanced Engineering Draftsman, STC

The Advanced Engineering Draftsman Short Term Certificate (STC) Program introduces students to drafting practices, symbols, conventions, and standards utilized in civil engineering contract documents and covers the theory and practical applications necessary to understand the basic design and terminology of structural steel components used in light commercial buildings. Emphasis is placed on structural steel drafting techniques, bolted and welded connections, framing plans, sections, fabrication and connection details, and bills of material and three dimensional problem-solving environment using solids modeling software. Topics include site planning, land surveying, topographic surveys, along with civil terminology. Upon completion, students should be able to draw accurate plat maps giving legal descriptions of land parcels, draw simple site plans, and identify and use proper symbols and conventions on civil engineering drawings, create parts in 3D models, produce working drawings and understand basic simulations. The STC provides the necessary educational background and practical training to help students acquire the knowledge, skills and abilities needed to prepare for a successful draftsman profession.

Program: [Engineering Graphics](#)

Type: Short Certificate

Area V: Required Field of Concentration Courses

Item #	Title	Credits
DDT 213	Civil Drafting, Plat Maps	3
DDT 225	Structural Steel Drafting	3
DDT 244	Advanced 3D Modeling	3
	Total credits:	9

Course Sequencing

Advanced Engineering Draftsman First Semester

Item #	Title	Credits
DDT 213	Civil Drafting, Plat Maps	3
DDT 225	Structural Steel Drafting	3
DDT 244	Advanced 3D Modeling	3

After successful completion of all courses students will be:

- Eligible for SolidWorks Certification Exam