

Drafting Skill Set

Certificate



ABOUT:

Drafting was traditionally a paper and pencil profession, with workers sitting at drafting desks drawing technical plans using drafting tools. Today, though some workers still draw by hand, most workers use computer-aided design and drafting software (CADD).

CADD software allows workers to create drawings and plans in a much more dynamic fashion, making it easier to calculate dimensions and materials and make changes when needed. CADD drawings can also be programmed into manufacturing equipment, allowing products to be produced exactly as drafters design them. The Drafting Skill Set Certificate program comprises two classes, although students may take one or both.

AUTOCAD:

An introduction to the standard conventions of two-dimensional graphic communications. Topics include: sketching, linetypes and meaning, orthographic views, sectional views, auxiliary views, pictorial views, dimensioning, tolerances, and the use of 2-dimensional CAD software. Completers may sit for the AutoDesk Certified User - AutoCAD exam.

SOLID MODELING AND 3D CAD:

An introduction to solid modeling software for mechanical applications using SolidWorks or Inventor. Topics include: an introduction to the SW interface; using sketch planes to create 3-D solid models, add features, build complexity into their models, and create detailed drawings of single parts based on current ASME Y14.5M standards; build assemblies from multiple part files; and create presentation files illustrating design concepts. Completers may sit for the Certified Solid Works Associate exam.

COST:

- \$1,000 per class; includes use of software and certification exams.
- Students can petition for college credit based on certifications earned.

Financial aid may be available for those who qualify.



STUDENTS LEARN:

- AutoCAD and 2D Modeling
- Solid Modeling and 3D CAD

DELIVERY FORMAT:

- 100% online, Instructor-led

To register and for details about schedules, dates, and times, go to:

www.bridgevalley.edu/drafting-skill-set

Questions? Call 304.205.6748