

CAD MODELING AND ANIMATION – ARCHITECTURE/ENGINEERING/CONSTRUCTION – OCCUPATIONAL SKILLS CERTIFICATE

Top Code: 0953.10

The curriculum prepares students to apply CAD systems to model industry specific architectural and engineering projects. Job functions include creating models of engineering designs and structures, creating associative drawings to models, generating computerized visualizations of architectural models.

An Occupational Skills Certificate is awarded upon completion of all required courses with a grade of C or better.

Program Outcomes

1. Demonstrate appropriate fluency of industry specific drawing standards and Computer-Aided-Design techniques in the development of architectural plans.
2. Demonstrate appropriate mastery of industry specific drawing standards through the analysis of written and tabular code data, and building processes.
3. Demonstrate an ability to effectively communicate through the use of two-dimensional appropriate and three-dimensional graphics, oral and written presentations.
4. Perform basic mathematical calculations in units of measure consistent with the architectural/engineering/ construction industry.

Requirements for the Occupational Skills Certificate

Code	Title	Units
Semester I		
DT 008A	INTRODUCTION TO DIGITAL DESIGN AND FABRICATION	3
Semester II		
DT 017	BUILDING DESIGN & CONSTRUCTION TECHNICAL GRAPHICS	3
Semester III		
DT 114	BUILDING INFORMATION MODELING DESIGN (BIM DESIGN)	3
DT 118	3-DIMENSIONAL BUILDING DESIGN & REPRESENTATION	3
Total Units		12