

# CAD/BIM TECHNICIAN – BUILDING DESIGN AND ENVIRONMENT – LEVEL 1 – CERTIFICATE OF ACHIEVEMENT

DT 118	3-DIMENSIONAL BUILDING DESIGN & REPRESENTATION	3
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**Total Units** 12

**This Certificate of Achievement is not eligible as a major for an Associate Degree.**

TOP Code:

0953.10

The curriculum prepares students to be intermediate users of 3-dimensional Computer Aided Design (CAD) and Building Information Management (BIM) software to solve building and construction design problems using the principles and standards of Sustainable Technology. A CAD Technician supports design activities with knowledge of sustainable production processes and industry standards. Job functions include interpreting building codes, LEED and current industry sustainability standards, formulas or data for building design, geometric problem solving, interpretation of designs for the development of blueprints, presentations of design reviews, and collaborating in design projects. This course of study prepares participants for successful completion of LEED accreditation at the Associates Level.

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

## Program Outcomes

- Communicate effectively using technical, graphical, oral and written formats.
- Demonstrate appropriate mastery of industry technical graphic standards, Computer-Aided Design, Building Information Modeling strategies and techniques, and rapid prototyping and sustainable technologies in the design and representation of architectural, engineering and construction systems.
- Demonstrate appropriate mastery of industry technical graphical standards in the critical analysis of technical graphics and digital prototypes of architectural, engineering and construction systems or processes.
- Collaborate effectively in teams to produce comprehensive design technology solutions to architectural, engineering and construction systems and processes.

## Requirements for the Certificate of Achievement

Code	Title	Units
DT 017	BUILDING DESIGN & CONSTRUCTION TECHNICAL GRAPHICS	3
DT 030	SUSTAINABLE TECHNOLOGIES	3
DT 114	BUILDING INFORMATION MODELING DESIGN (BIM DESIGN)	3