

# DRAFTING TECHNICIAN I 19 UNIT CERTIFICATE

## Required Courses

### **ENGD 101 Introduction to Drafting (3 units)**

Survey course exploring the basic techniques used in drafting

### **ENGD 103 Blueprint Reading for Construction (3 units)**

Designed to develop skills necessary to interpret both residential and commercial construction drawings and blueprints

### **ENGD 110 Introduction to 2-D AutoCAD (3 units)**

Introduction to AutoCAD program including basic commands required for computer aided drafting

### **CT105 Technical Sketching (3 units)**

Develop sketching skills and introduce sketching techniques

### **CT107 Technical Mathematics (3 units)**

A review of basic arithmetic, fractions, decimals and percentages

### **MATH 104 Trigonometry (4 units)**

Preparatory course for calculus includes trigonometric functions and equations, solutions right and oblique triangles, trigonometric forms of complex numbers and De Moivre's Theorem

Or

### **MATH 105 College Algebra (4 units)**

Offers review of real numbers, real number exponents, and factoring polynomials. Also covers equations and inequalities, solutions to systems of equations and inequalities, solutions to equations and inequalities involving absolute value, graphing relations and functions, matrices, determinants of matrices, and matrix algebra

## What is a Drafting Technician I

*As a Drafting Technician you will use software to convert the designs of engineers and architects into technical drawings. Most workers specialize in architectural, civil, electrical, or mechanical drafting and use technical drawings to help design everything from microchips to skyscrapers.*

## SUGGESTED SEQUENCE OF COURSES

### *1st Semester*

ENGD 101

ENGD 103

\*CT 107

\*Offered Fall Only

### *2nd Semester*

ENGD 110

\*\*CT 105

MATH 104 OR MATH 105

\*\*Offered Spring Only

For more information regarding this program please contact Claude Oliver, Department Chair,  
Architectural and Engineering Drafting Department at [claudе.oliver@vvc.edu](mailto:claudе.oliver@vvc.edu)

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## COST OF PROGRAM

**Tuition: \$875**

**Book: \$50**

**TOTAL: \$925 (approx.)**

(As of 2018-19, Subject to change)

## *High Desert Companies Who Hire Drafting Technicians*

Arizona Pipeline

DS Energy Solutions

MWC Group, Inc.

Safeway Sign Company

Southern California Edison

Southwest Gas

Tibban MFG, Inc.

Approx. Starting Salary \$16.00 to \$24.00 per hour

- *Preparation to work in Architecture, Engineering and Drafting fields*
- *Working knowledge of mechanical and architectural drawings*
- *Understanding concepts of line weights, lettering, orthographic projection and sketching*
- *Two and three dimensional projects*



**VICTOR Valley College**  
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Located on lower campus off Fish Hatchery Road, Building 63