

## **DRAFTING**

### **PERFORM BASIC GENERAL DRAFTING ORIENTATION SKILLS**

- identify & use drafting tools
- apply mathematics & interpret scales
- draw single view drawings, variable types
- define the printer process
- operate the white printer
- define standard print sizes
- apply filing data: title block drawing number & title
- fill out safety check list

### **PERFORM BASIC TECHNICAL DRAFTING SKILLS**

- draw using geometric construction
- draw using multi-view
- draw using proper dimensioning & notation
- draw using sectional views
- draw using auxiliary views
- draw using descriptive geometry
- draw patterns and developments
- apply geometric dimensions & tolerance
- draw using fasteners
- design a gear system
- draw an assembly & detail
- draw a pictorial
- draw a single-line piping schematic
- draw an electronic schematic
- indicate welds using symbols

### **PERFORM BASIC ARCHITECTURAL DRAFTING SKILLS**

- use scale
- study codes and interior design
- apply room sizing
- apply exterior factors
- follow design sequence
- use floor plan symbols
- generate floor plan dimensions
- use energy efficient designing
- compute Environmental Systems specs
- compose a floor plan
- select foundation system
- design floor system
- compose a foundation plan
- design loading
- compute joist/rafters
- compute beam design

understanding framing  
understand structural components

understand sectioning basics  
draw a section plan  
understand elevations  
draw an elevation layout  
draw a stair detail  
draw a fireplace detail  
understand millwork concepts  
draw cabinet elevations  
understand/draw a perspective

### **PERFORM BASIC CIVIL TECHNOLOGY DRAFTING SKILLS**

use scale  
plot a traverse  
convert distance  
compute deflection angles  
compute interior angles  
draw a contour map  
draw a vicinity map  
draw a road profile  
compute cuts and fills  
draw a cut & fill profile  
compute field notes  
convert field notes  
perform field survey  
layout a subdivision

### **PERFORM BASIC JOB SEEKING SKILLS**

write a job resume  
fill out job application  
experience an employer interview

### **PERFORM BASIC COMPUTER AIDED DRAFTING (C.A.D.) SKILLS**

identify the tools (equipment) use in C.A.D.  
identify the meaning of MS-DOS  
format a floppy disk  
use the main menu selections to start a drawing  
set up the LIMITS and UNITS  
set up the drawing aids LIMITS, UNITS, GRID, SNAP, AXIS  
use the LINE command  
identify how to save a drawing  
explain the difference between SAVE, END, QUIT  
use the absolute, relative, polar coordinate systems  
draw using the trace command

use PLINE command  
make revisions using the ERASE command  
observe the FILL ON-OFF, REDRAW command  
use DRAGMODE command  
draw with the CIRCLE command  
draw with the ARC command  
use the ELLIPSE command  
use the OSNAP, OFFSET, DIVIDE, MEASURE command  
use the ZOOM command  
use TEXT, DTEXT, QTEXT, STYLE command  
use MOVE, COPY, FILLET command  
use ROTATE, SCALE, BREAK, TRIM command  
use ARRAY command  
use AREA, LIST, STATUS command  
use LINETYPE, COLOR, LAYER command  
use DIM command  
use HATCH, SOLID command  
use PLOT command