



Youth – Understanding Measurement, Blueprint or CAD CAM

Course Description

This course will educate the student on basic shop math related to measurement and converting measurements.

<u>Module</u>	<u>Description Measurement</u>	<u>Length</u>
A	Pre-test Math – converting fractions to decimals / decimals to fractions	4hr
B	Dimensioning – fractional, decimal, inch and metric post-test	4hr

Facilitator John Barlage / Nick Perry

Text: lab exercises from NSCC course MTH050

Course Description

The course objective is for students to gain a basic proficiency for understanding and manipulating technical drawings and associated conventions. The course material for Print Reading and Sketching includes the alphabet of lines, orthographic projection, ordinary views, section views, auxiliary views, pictorial sketching, dimensioning, tolerancing, screw threads and fasteners, mathematics for design and an introduction to geometric dimensioning and tolerances.

<u>Module</u>	<u>Description Blueprint Reading</u>	<u>Length</u>
A	Pre-test Print Reading Terminology, alphabet of lines, hand sketches	4hr
B	Post-test	4hr

Facilitator John Barlage / Doug Hogrefe

Text: Lab exercises from NSCC course MET110

Course Description

The course will introduce the student to fundamentals of computer-aided design. The class will review the need for X-Y coordinate analysis, application commands, shapes and layers

<u>Module</u>	<u>Description Basic CAD / CAM</u>	<u>Length</u>
A	Pre-test New drawing, X-Y coordinates, basic shapes and commands layers and settings	4hr
B	Dimensions, paper space vs model space, advanced commands and shapes post-test	4hr

Facilitator Doug Hogrefe

Class offered at NSCC engineering computer lab Text: Lab exercises from NSCC course CAD111

The student will receive one credit hour of college credit from NSCC and a certificate upon successful completion of this course.