MEDR 1618: Computer Assisted Drafting 3-D

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 2

Lab Hours/Week: 1

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course is an introduction to the solid modeling methods and software used in the field of engineering and drafting. The learner makes virtual solid models and drawings using AutoCAD Inventor software. The learner uses state-of-the-art computers and software to gain an understanding of processes and procedures involved.

B. COURSE EFFECTIVE DATES: 01/06/2004 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Identify the graphics screen components.
2. Use applications and documents settings.
3. Create closed loop sketches.
4. Identify and utilize geometry constraints.
5. Create features.
6. Modify features.
7. Create work planes, axis, and points.
9. Use and create assembly and presentation files.

D. LEARNING OUTCOMES (General)

1. The learner will identify various menu commands and their locations while constructing primitive solid models.
2. The learner will edit solid models.
3. The learner will create and print detail drawings.
4. The learner will edit and annotate drawing views.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted