TADD 4690: TAD LAB: Geometric Dimensioning and Tolerancing

A. COURSE DESCRIPTION

Credits: 2
Lecture Hours/Week: 0
Lab Hours/Week: 0
OJT Hours/Week: *.*
Prerequisites: None
Corequisites: None
MnTC Goals: None

Students will learn the skills needed to create engineering designs that clearly communicate the intent of a part to avoid mistakes that can occur during the manufacturing process. The common language, known as GD&T, can help facilitate communication amongst key team members responsible for producing a part. GD&T is an invaluable tool required to communicate the desired form, fit, function, and interchangeability of a part. Prerequisite(s): TADD 3690.

B. COURSE EFFECTIVE DATES: 08/01/2024 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Basic dimensioning
2. Datums and features
3. GD&T symbols
4. Material condition modifiers
5. Feature control frames

D. LEARNING OUTCOMES (General)

1. explain general dimensioning concepts.
2. identify and implement the symbols and datums used in GD&T drawings.
3. identify the various application options of GD&T.
4. create and read a GD&T drawing.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted