



Project ID# _____

Group Letter: _____

MD-2: Mechanical "CAD" *Production Drawings*: This classification is for students are enrolled in a mechanical drafting (CAD) course with an emphasis in Orthographic / Multiview Drawings. The entry shall consist of a complete set of detail and assembly orthographic drawings done with a Computer and the aided of a Design and Drafting Program (software). Drawings not larger than 24" x 36" are eligible. This classification is for orthographic working drawings. Isometric or pictorial drawings are not required for MD-2. But if students wish to include a "single" isometric or pictorial representation of the entry as their cover page, it will be allowed but no more than one pictorial will be allowed and it will not be used in scoring.

Drawing requirements for Groups A and N: Drawings of machines, accessories, jigs or fixtures, or any CAD drafting project of this nature may be submitted. Detail drawings must be dimensioned. The entry must include an orthographic/multiview drawing with dimensions, a single pictorial drawing and a selection of not more than two detail drawings. This classification may include drawings of machine parts or assembly drawings. The selection may not have more than five developments drawings. Irregular shaped objects that have either practical or theoretical applications are eligible. The developments drawings must be properly detailed and dimensioned.

Drawing requirements for Groups P and D: Advanced Mechanical (CAD); This classification is for students who have completed more than one high school mechanical drafting course. The entry shall consist of a complete set of detail and orthographic assembly drawings generated with the use/aid of a computer on suitable plotter media not larger than 24" x 36" are eligible. Drawings of machines, accessories, jigs or fixtures, or any advanced drafting project of this nature may be submitted. Detail drawings must be fully dimensioned. A single entry must include an orthographic assembly drawing and a selection of not more than five detail sheets. If six or more sheets are involved in the project, the assembly drawing and the best five detail sheets must be selected and submitted. A selection may not have more than five developments drawings. Irregular shaped objects that have either practical or theoretical applications are eligible. The developments drawings must be properly detailed and dimensioned.

Classification: MD-2 Mechanical (CAD) **Entry Title:** _____

Entry Checklist

- _____ Sheet size 24" x 36" or smaller _____ Dimensions are required
- _____ Workbook sheets are labeled(If applicable) _____ Technical Report

Major Evaluation Factors: **Comments:** _____

Each drawing will be subject to this checklist with negative points deducted from 100.

Category:	- 4 or more	- 3	- 2	- 1	- 0	Neg. Pts.
Functional & shows good drawing technique						
Accuracy of Dimensions						
Drawing Technique, Accurate layout, and neatness						
Appearance – overall impact						
Complexity – Creativity – Originality	+3	+1	0	-1	-3	
Subtract Negative points from 100						Project Rating =

Judges may subtract more than the -4 at there own discretion.

Entry Violation: ___ Missing information. ___ No Technical Report: ___ (Total violation) _____

100-90 = I (blue) - 89-80 = II (red) - 79-65 = III (white)

Overall Project Score _____

- 2 or more pts. = shows effort, but more could have been done.

- 1 pt. = a very good effort - with minimal flaws or defects

- 0 pts. = Excellent effort - no mistakes or visible flaws

Student info / Project ID#. _____

School. _____

Instructor. _____