

## Mechanical Designer/CAD Operator MEI:

- *Reports to the D.O.A. but takes priorities from the Mechanical Lead.*

The mechanical CAD operators' main responsibility is to assist the Mechanical designers by producing functional mechanical drawings on time and on budget.

1. Core competencies and responsibilities
  - Solid Works - proficient in modeling, assemblies, drawings, sheet metal, weldments, BOM's, configurations, templates, etc.
  - Create part models and drawings based upon concepts provided by the mechanical lead or designer
  - Detail mechanical drawings and create BOM's
  - Design of subcomponents and parts for manufacturability, cost effectiveness, and time reduction
  - Create and maintain part libraries
  - Follow processes and procedures
  - Understanding of mechanical and fluid power principles
  - Assist in part & materials specification for ordering
2. Efficiency and cost reductions
  - Rework reduction
  - Engineering completeness
  - Reusing existing design where feasible
  - Documenting designs that can be re-used

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