

Mechanical Engineering Technologists and Technicians

Mechanical Engineering Technologists and Technicians are professionals who assist engineers in designing, developing, testing, and maintaining mechanical systems and equipment. They apply practical engineering principles to solve technical problems, ensure efficient operation, and support manufacturing, construction, and research projects.

Duties and Powers

- Assist in the design, development, and testing of mechanical systems, machinery, and equipment.
- Prepare technical drawings, schematics, and models using CAD and other engineering software.
- Conduct inspections, maintenance, and troubleshooting of mechanical components and systems.
- Perform calculations and measurements to ensure systems meet design specifications.
- Monitor production processes and recommend improvements to enhance efficiency and quality.
- Collect and analyze data from experiments, prototypes, or operational systems.
- Collaborate with engineers, technicians, and production staff to implement solutions.
- Ensure compliance with safety, environmental, and industry regulations.
- Operate and maintain mechanical testing and manufacturing equipment.
- Document procedures, test results, and maintenance records for reference and reporting.