

MANUFACTURING ENGINEERING TECHNOLOGIST

Mission Statement

The Manufacturing Engineering Technologist program delivers an innovative and applied education that supports the workforce needs of the region's employers. They will assist engineering and management in the design and development of new products and production processes staying abreast of changing technology through lifelong learning.

Manufacturing Engineering Technologist Program Objectives

- Graduates will be well versed and skilled in current manufacturing processes, team-based problem solving methods, root cause analysis, manufacturing standards, and current practices.
- Graduates will assist the quality engineer in quality control methods such as statistical process control, lean manufacturing techniques, and designed experiments.
- Graduates will assist the Quality Engineer in design for product manufacturability, assembly, and shipping.
- Graduates will assist in cost estimating of products and manufacturing.

Manufacturing Engineering Technology Student Learning Objectives

Students will demonstrate:

- ability to apply statistical quality control, root cause analysis, and team-based problem solving to solve well-defined manufacturing problems;
- an ability to design solutions for well-defined technical problems and assist with the engineering design of systems, components, or processes appropriate to the discipline;
- an ability to apply written, oral, and graphical communication in well-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature
- an ability to prepare solid models and document procedures in a manufacturing environment; and an ability to identify and use technical literature
- an ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results; and an ability to make measurements using manual and automated systems, conduct tests essential to manufacturing processes, and design and analyze process improvement experiments; and
- an ability to function effectively as a member of a technical team.

Manufacturing Engineering Technology Careers

- Process Engineering Technician
- Quality Inspector
- Product Quality Technician
- Manufacturing Engineering Technician
- First Article Inspector
- Plant Engineering Technician