



APPRENTICESHIP PROGRAM

Drafting and Design Technology / Drafter, Mechanical

PROGRAM OUTCOMES:

Provides students with the knowledge and skills to prepare clear, complete and accurate plans and detailed drawings for use in the building industry and manufacturing.

PROGRAM LENGTH:

Years: 4

Diploma hours: 500

AAS hours: 500

A probationary period of 90 days

RELATED TECHNICAL INSTRUCTION (RTI):

Certificate(s), Diploma, AAS Degree

COURSE SPECIALIZATION:

- Architectural Design
- Manufacturing Drafting & Design
- Structural Detailing & Design

ON-THE-JOB TRAINING (OJT) COMPETENCIES:

- Produce three-dimensional models, using computer-aided design software.
- Evaluate technical data to determine the effect on designs or plans.
- Prepare detailed work plans for Fabrication and Erection.
- Verify mathematical calculations.
- Evaluate designs or specifications to ensure quality.
- Check the dimensions of materials to be used and assign numbers to the materials.
- Modify and revise designs to correct operating deficiencies or to reduce production problems.



JOB FUNCTIONS:

- Analyze design or requirements information for mechanical equipment or systems.
- Create images or other visual displays.
- Design electromechanical equipment or systems.
- Create graphical representations of mechanical equipment.
- Confer with technical personnel to prepare designs or operational plans.

SKILLS:

Active Listening, Critical Thinking, Graphics and photo imaging software, Detail-oriented, Project management, Creativity

