

ADVANCED MANUFACTURING, LEVEL I, CERTIFICATE OF ACHIEVEMENT

This Advanced Manufacturing Level 1 Certificate of Achievement provides the relevant knowledge and skills required for entry-level employment or internship for manufacturing technicians and assemblers. The subjects are taught with an emphasis on job related skills required by manufacturing industries, using a practical approach using procedures, and standards using in the manufacturing industry.

Program Learning Outcomes

- Demonstrate competence in building, servicing, and testing circuits utilizing safe and industry standard practices and procedures.
- Demonstrate how to assemble circuit boards, mechanical systems and electrical systems.
- Perform a material application process that includes material selection, application fabrication techniques, relevant testing, and necessary characterization technique based on the application.
- Demonstrate how to collect, analyze, interpret, and present numerical data to make effective decisions.

Course	Title	Units
MFGT 101	Introduction to Advanced Manufacturing	2
MFGT 102	Math for Manufacturing	2
MFGT 103	Introduction to Assembly	3
MFGT 201	Fundamentals of Electronics for Manufacturing	3
MFGT 202	Properties of Materials for Manufacturing	3
MFGT 203	Data Analytics for Manufacturing and Quality Control	3
Total Units		16