

COMPOSITE INSPECTION (CERT)

CERTIFICATE OF ACHIEVEMENT

The Certificate of Achievement in Composite Inspection allows the student to learn basic composite fabrication, processing, dimensioning, tolerancing, testing, measuring, and computer assisted inspecting, in the MTT and ENGT departments. The student is able to benefit from the cooperation of those three departments to get the best possible knowledge of composite inspection. Students who complete this certificate are well positioned for both composite and plastic projects inspection.

Program Student Learning Outcomes

- Student demonstrate safe work habits around plastics machinery.
- Student utilize non-destructive procedures to inspect the quality of a manufactured part.
- Students communicate clear technical instructions.
- Students differentiate between the various types of plastic.
- Students identify by visual inspection the quality of a manufactured part.
- Students use percentages to mix resins, fillers, and colors.
- Students use physical testing to validate the strength of a manufactured part.
- Students utilize ratios and fractions to mix materials.

Program Requirements

Code Number	Course Title	Units
Required Courses		
ENGT 111	Plastics Technology	3.0
ENGT 116	Blueprint Reading and Production	4.0
ENGT 117	Geometrical Dimensioning and Tolerancing and Model Based Definition	4.0
ENGT 209 or ENGT 250 or ENGT 251	Plastics Injection Molding I Fiberglass and Vacuum Infusion Process Technology Composites Fabrication and Tooling	3.0-4.5
MTT 131	Geometric Tolerance Inspection using Verisurf	3.0
Total Units		17-18.5