

COMPOSITE MANUFACTURING TECHNOLOGY (CMFGT) COURSE



WICHITA STATE
UNIVERSITY

WORKFORCE, PROFESSIONAL
AND COMMUNITY EDUCATION



WICHITA STATE
UNIVERSITY

NATIONAL INSTITUTE
FOR AVIATION RESEARCH

ABOUT THE COURSE

Introduction to Online Composite Technology & Engineering Courses

These courses were developed through the collaboration of Wichita State University, industry subject matter experts, and the Federal Aviation Administration. The courses are taught online, include all teaching materials, and feature real-world discussions facilitated by subject matter experts and observed by FAA representatives. Depending on prior knowledge and experience, students will spend up to ten hours per week reviewing materials, participating in online discussions and testing their knowledge. An optional 2-day hands-on lab is provided in Wichita, Kansas*.

*Must have at least 7 enrolled in the lab for the In-Person lab to be held.

Composite Manufacturing Technology (CMfgT) Course Description

CMfgT provides manufacturing professionals with a technical background in the manufacturing of composites. Students examine each of the fundamental processes of composite manufacturing, and where individual processes fit within the overall fabrication scheme. At the end of this course, students will be able to identify issues and potential deficiencies on the factory floor that may impact the safety of composites used in aerospace structures.

Course Objectives

- Students will develop knowledge in composite materials, current manufacturing processes and related structural details for certified aircraft products.
- Students will understand regulatory requirements and related safety issues considered in the certification of manufacturing processes for composite structures.

Who Should Attend?

All professionals responsible for any aspect of composite manufacturing, including, for example, facility oversight and quality system development and approval. Students benefiting from this course include FAA inspectors, FAA designers, and other industry professionals.

Course Topics include:

- Introduction to Composites
- Composite factory workflow
- Materials manufacturing
- Transport, incoming QC and storage
- Tool prep, cutting, layup and bagging
- Cure, consolidation
- Drilling, machining
- Inspection
- Bonding and assembly
- Paint and finish
- Handling and storage
- Common manufacturing issues

Course Dates

January 13, 2025 – February 25, 2024

FEES

Online Course: \$900.00

Registration is limited and will be accepted on a first-come, first-serve basis.

[You may register and pay on-line at www.wichita.edu/cmfgt.](http://www.wichita.edu/cmfgt)

As space is limited, register quickly to reserve your spot!

If the class fills prior to registering, students are placed on a waiting list for possible future classes.

Cancellations and Refunds:

All cancellations must be made in writing. A 15% administrative fee will be assessed on all cancellations (this includes purchase orders). There will be no refunds after **January 6, 2025**. WSU reserves the right to cancel the program due to lack of enrollment. In that event, WSU will refund any pre-paid course fees but will not be responsible for any incidental or consequential damages.

WHAT WE'VE HEARD



This course met and exceeded my feelings (of the CMfgT course) and met the objectives. This course was very well organized in terms of subject matter. - Tausef Butt, Former CMfgT Student



The discussion boards provide some perspective into what the auditor is looking for on their audit. - Toan Dinh, Former CMfgT Student



The online portion provided lots of quality/inspection pointers. The hands-on (lab) gave us great background. - Kim Edwards, Former CMfgT Student