

PROFESSIONAL-TECHNICAL PROGRAMS

COMPOSITES MANUFACTURING TECHNOLOGY

Explore Your Opportunities in an Exciting Career Pathway!

Composite Manufacturing Technology skills are in demand by companies such as The Boeing Company, Boeing suppliers, Lockheed Martin, Puget Sound Naval Shipyard and many others. The aerospace industry hires many with composite manufacturing skills, and predicts they will see significant increases in employment capacity over the next few years. Many workers in this industry are approaching retirement age, which means the industry will need to fill those positions also. Additionally, Composites are used in the marine industry, in the production of medical devices, hardwood veneer/plywood manufacturing and sports equipment.

Individuals in entry-level manufacturing positions, such as Assemblers or Team Assemblers, can gain additional skills with the completion of this certificate, which may lead to higher-level work as a Helper or as a Laminator & Fabricator. With experience in the field, one could also move into a lead or first-level supervisory position in the composites manufacturing environment.

Remember, employers in all industries are looking for employees who are on time, dependable, can work well alone or in teams, have good communication skills and have a good work ethic. These important qualities are stressed in our curriculum.

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CONTACT US

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To enroll, contact the Admissions office today!

Admissions Office:

Humanities and Student Services Bldg., First Floor
OC Bremerton
360.475.7479 or 1.800.259.6718, Ext. 7479
E-mail: prospect@olympic.edu
www.olympic.edu/ForStudents

Our Mission

We serve and enrich all our communities by providing quality education and training for all who seek to improve their lives through learning.


OLYMPIC COLLEGE

1600 Chester Avenue, Bremerton, WA 98337 - 1699
360.792.6050 or 1.800.259.6718
www.olympic.edu

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COMPOSITES MANUFACTURING TECHNOLOGY




OLYMPIC COLLEGE

Start Here. **Go Anywhere.**

Composites Manufacturing Career Options

- Assemblers and Fabricators *In Demand**
- Team Assemblers *In Demand**
- Helpers-Production Workers
- Fiberglass Laminators and Fabricators
- First-Line Supervisors/Managers of Production and Operating Workers

Wages*

The job titles listed above include entry-level to experienced/supervisory. Median hourly wages range from \$11.40 to \$32.81.

How to Pay for College

For funding options go to www.olympic.edu/ForStudents/Funding or call 360.792.6050 for more information.

Some of the programs listed here may fall under **Gainful Employment** regulations. Please visit: www.olympic.edu/GainfulEmployment for disclosure on programs that may lead to gainful employment.

*Assemblers and Fabricators and Team Assemblers are "In Demand" for the Olympic Workforce Development Area, according to Workforce Explorer. Labor Market and wage data noted comes from Economic Modeling Specialists, Inc. Current information can be found at www.esd.wa.gov.

PROGRAM OPTIONS**

Composites Manufacturing Technology - Certificate of Completion (30 credits)

This certificate is designed to provide students with entry-level manufacturing skills in composites and a foundation to pursue other certificates and two-year degrees in manufacturing in this specialty. A complete list of the courses included in the certificate can be found in the Olympic College catalog.

Composites Manufacturing Courses:

First Quarter - 15 Credits

MANU 170 - Introduction to Composites:

History of composites. Safety, industry skills and initial planning for individual and class projects of Advanced Composites.

Second Quarter - 15 Credits

MANU 175 - Advanced Composites:

Using classroom and laboratory, builds on concepts of MANU 170. Advanced terminology, industry work environments, safety and quality standards.



**Program and course data will be included in 2012-2013 Olympic College Catalog. View the current catalog on-line at www.olympic.edu.

PROGRAM OUTCOMES

Upon completion of this program, successful students will have demonstrated the ability to apply their skills and knowledge in the following ways:

- Demonstrate an understanding of composite terminology with the ability to define, utilize and explain composite terminology.
- Demonstrate an understanding of safety rules for equipment in composites laboratory.
- Demonstrate an understanding of composite builds by evaluating composite builds completed in class, recognizing basic materials used for vacuum bagging by identification, identify machining pugs and molds by evaluating lab built tools.
- Demonstrate an understanding/ability to schedule a project over 5 weeks.
- Understand and perform common assembly techniques and bonded assembly manufacturing techniques.
- Demonstrate an understanding of machining plugs and molds by evaluating a tool built in lab.
- Understand matrix materials, resins and fiber reinforcements; basic design considerations for composite structures and the unique properties of composite reinforcement fibers.
- Understand and identify cure profiles and demonstrate the ability to build a composite project.
- Participate in and contribute to the effectiveness of teams.
- Use basic communication skills (writing, reading, speaking, listening and computing) to meet the needs of the workplace.
- Gather, interpret, and use data consistently and accurately to make decisions and take actions.