



Quality Assurance

Certificate of Completion (CC)

Planning Guide 2017-2018

EPC 607C

Program Information:

Length of Program: 10 Credits
Completion Award: Certificate of Completion
Enrollment: Every Quarter
Approximate Quarterly Costs: \$200
(in addition to tuition, books and parking)

Website: www.shoreline.edu/cncmachinist/

Program Advisor:

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Program Navigator:

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Program Description:

The certificate in Quality Assurance is a ten-credit two-quarter course of study intended to not only meet the needs of the manufacturing industry for inspectors and quality assurance personnel, but also to provide the field with manufacturing technicians who are better trained in how to make quality parts. In addition to learning practical measurement and inspection techniques that can be applied to verify that the parts they are making meet the customers' needs, students will gain a deeper understanding of process control and what it means to make a quality product.

Quality Assurance—What is it?

Quality Assurance is about keeping the customer happy ... and staying in business. This program provides an awareness of the concepts, theories, and practices of quality as they relate to today's manufacturing environment, with the goal of preparing students to achieve national quality inspection certification such as the American Society for Quality Certified Quality Inspector.

Program Outcomes:

Students who successfully complete this program **-by achieving a grade of 2.0 or better for each individual course in the program-** should be able to:

1. Define quality and discuss its role in manufacturing today, including its impact on cost and the customer.
 2. Demonstrate knowledge of basic quality philosophies, concepts, terms and their definitions.
 3. Interpret and analyze technical drawings, including Geometric Dimensioning and Tolerancing (GD&T), and apply inspection tools and techniques to verify the acceptability of manufactured parts.
 4. Use a wide range of metrology equipment properly.
 5. Apply technical mathematics and basic statistics in solving quality inspection problems.
 6. Identify non-conforming material and initiate resolution.
 7. Apply a variety of quality assurance tools, concepts, and inspection and test methods to solve quality inspection challenges.
 8. Show familiarity with requirements found in flight-safety and other standards applicable to machined parts, including the concept of traceability as it applies to materials, calibration, and finished products.
 9. Understand the importance of attention to detail, personal integrity, interpersonal skills, and effective communication in quality assurance.
 10. Be prepared to take the American Society for Quality (ASQ) Certified Quality Inspector (CQI) examination.
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Career Opportunities—What can I do with a Certificate in Quality Assurance?

The Certificate in Quality Assurance program helps machinists to be better machinists, and helps those in, or interested in, inspection and quality positions to further develop skills that can be applied in a broad range of industries. Where employers endorse them, certifications can give special consideration to new applicants and to employees seeking promotions, and the Certified Quality Inspector certificate that this program helps to prepare you for is nationally recognized.

Potential employers include: Although this certificate program is primarily focused on the machining industry, the quality assurance skills developed are applicable to a wide range of industries. Graduates may find employment in local companies working in the manufacturing, inspection, or quality departments. Entry level salaries vary with each employer and individual skill level. For more, please visit career information and resources at <http://www.shoreline.edu/counseling-center/career-counseling.aspx>.

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Program Prerequisites: Satisfactory completion of MFGT 120 with a grade of 2.0 or better, or Instructor permission.

CERTIFICATE OF COMPLETION – 10 Credits

PROGRAM REQUIREMENTS 10 Credits			
Course	QTR	GR	CR
MFGT 155 Quality Assurance Fund.			5
MFGT 156 Quality Inspector Prep.			5

RECOMMENDATIONS:

Note: Every effort has been made to ensure the accuracy of the information in this publication. However, the information is subject to change without notice and final career decisions are the responsibility of the student.

CERTIFICATE COMPLETION

Students should automatically receive their Certificate after successful completion of all required courses. If you have not received your Certificate, please contact the Workforce Education Programs in FOSS 5100 or call 206-546-5876.