

## Quality Control/Metrology – Fall 2017

### Course #: MFG 117, CRN 33042

<b>Instructor:</b>	Charles (Chip) O'Lari
<b>E-mail:</b>	<a href="mailto:COLari@qvcc.commnet.edu">COLari@qvcc.commnet.edu</a>
<b>Telephone:</b>	(860) 463-3050
<b>Class Hours:</b>	Tuesday 6:30-9:15PM Room E223
<b>Office Hours:</b>	Before or after class, or by appointment
<b>Required Text:</b>	Essentials of Quality, by Victor E. Sower, John Wiley & Sons, ISBN 978-0-470-50959-3

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#### **Course Description:**

This course provides the student with knowledge of product quality and quality tools, including metrology, used in manufacturing to implement continuous process improvement. See Detailed Course Outline below for more.

**Course Objectives:** By the end of this course students will be able to:

1. Understand the importance of quality management in the workplace
2. Use their knowledge of variation to affect process improvement
3. Understand the tools of Quality Control
4. Understand basic metrology
5. Construct various control charts

#### **Disabilities Statement:**

Students with disabilities are guaranteed reasonable accommodation under the provisions of the Americans with Disabilities Act of 1992. Disclosure of a disability must be voluntary and initiated by the student. For further assistance, please contact Matt Liscum in the Office of Disability Services at 860.215.9265 or [mliscum@threeivers.edu](mailto:mliscum@threeivers.edu). Please note that an instructor cannot provide disability accommodations until a student provides the necessary paperwork from the college's Office of Disability Services.

#### **Academic Integrity:**

Academic integrity is essential to a useful education. Failure to act with academic integrity severely limits a person's ability to succeed in the classroom and beyond. Furthermore, academic dishonesty erodes the legitimacy of every degree awarded by the College. In this class and in the course of your academic career, present only your own best work; clearly document the sources of the material you use from others; and act at all times with honor.

#### **Plagiarism:**

Plagiarism is the unacknowledged use of another person's work or ideas in your writing. It is often known as copying word-for-word. However, even paraphrasing without acknowledgement or using the ideas of peers garnered from class discussion or a study group is considered plagiarism. Whether it is conscious or unconscious, plagiarism is a serious academic offense. Your writing for this course, and any other course at TRCC, is expected to be original, and the product of your own thinking. A student who has plagiarized will receive a ZERO on his/her assignment and may be reported to the Academic Dean and/or Student Services Dean for disciplinary action.

### **Technology Statement:**

The use of cell phones or other technological devices is not permitted during class time, unless deemed appropriate by the instructor.

### **Electronic Learning Portfolios:**

All students are required to maintain an online learning portfolio in [Digication](#) that uses the college template. Through this electronic tool students will have the opportunity to monitor their own growth in college-wide learning. The student will keep his/her learning portfolio and may continue to use the Digication account after graduation. A Three Rivers General Education Assessment Team will select and review random works to improve the college experience for all. Student work reviewed for assessment purposes will not include names and all student work will remain private and anonymous for college improvement purposes. Students will have the ability to integrate learning from the classroom, college, and life in general, which will provide additional learning opportunities. If desired, students will have the option to create multiple portfolios.

### **Email:**

Correspondence by email is considered a method of formal communication. Emailing an instructor is not the same as emailing or texting a friend. Please use a proper salutation, complete sentences, punctuation, proper spelling and identify yourself by name in the body of the email. **Students must use their [college issued email account](#). College issued email is the official mode of communication used by the college to contact students.**

### **Class Cancellation:**

To determine if the college is closed, please visit the TRCC webpage at <http://www.trcc.commnet.edu/> and/or sign-up for notification through MyCommNet ALERT.

### **College Withdrawal Policy:**

Course withdrawals are accepted up until the week before classes end. Withdrawal forms are available online or at the Registrar's office. The withdrawal does not have to be signed by the instructor but it is strongly advised that you speak with your instructor before withdrawing. If necessary, you can withdraw over the phone by calling the Registrar's Office at 860.215.9064. Emails and faxes are also accepted. If you are receiving financial aid, it is strongly recommended that you contact the [Financial Aid Office](#) before withdrawing. Withdrawal may affect your financial aid for current and/or future semester(s). It is your responsibility to confirm that the withdrawal has been received.

**The last day to withdraw from the Fall 2017 semester is December 11, 2017**

### **Class Attendance and Homework:**

**Attendance/Participation:** Participation in class is part of the final grade. Lecture portion of course is on Powerpoint slides. All slide presentations are posted on Blackboard prior to the start of that Unit. Students are encouraged to print slide presentations from Blackboard to bring to class. If a student is unable to attend class, it is your responsibility to complete any missed assignments.

**Instructor Assistance:** Seeking help from the instructor outside of class is encouraged if you are having difficulty understanding course material. You are encouraged to seek assistance during class as well as during other times by appointment.

**Homework:** Homework is an important part of this course. All homework assigned is due by the beginning of the next class. Late homework is accepted, with deductions. Homework is posted on Blackboard. Do not copy or plagiarize other people's work. Cite all references, especially internet references.

**Evaluations and Grading:** There will be several quizzes, an independent paper, and a final exam. All grades are posted on Blackboard. The final grade is made up of the following:

- Homework 25%
- Class participation: 10%
- Quizzes 25%
- Project paper: 15%
- Final Exam: 25%

**Grading Distribution:**

A	94-100	C	73-76
A-	90-93	C-	70-72
B+	87-89	D+	67-69
B	83-86	D	63-66
B-	80-82	D-	60-62
C+	77-79	F	0-59

Class Schedule (subject to change at instructor's discretion):

<b><u>Week(s)</u></b>	<b><u>Unit - Topic</u></b>
1-2	1 - Introduction, definitions, history, quality guru's (2 weeks)
3-6	2 - Problem Solving & Root Cause Analysis (4 weeks)
7	Project paper due
7-10	3 – Variation, Measurement & Metrology (4 weeks)
11-13	4 – Statistics (3 weeks)
14	Continuous Improvement & Review (1 week)
15	Final Exam

## FALL 2017 Standard 15 Week Session

Aug 28	Registration deadline and last day to drop classes for full tuition refund
Aug 29	Classes begin, add and drop periods begin
Sep 4	<b>Labor Day - college closed</b>
Sep 4	Last day for registered students to add a class - online ( <b>Sep 1 <u>in person</u></b> )
Sep 5-8	Welcome Week
Sep 11	Last day to drop classes and partial tuition refund
Sep 18	Constitution Day observed (classes in session)
Sep 22	Professional Day (classes in session)
Sep 26	Last day to select audit option
Oct 17	Reading Day <b><u><a href="#">*See Additional Notes</a></u></b>
Oct 31	Advising Day (classes in session)
Nov 1	Continuing Degree-Seeking Student Registration for Winter '17 Intersession and Spring '18 Semester Advising day (classes in session)
Nov 7	Last day to select pass/fail option, last day to submit incomplete work from Spring '17 and Summer '17
Nov 15	New Student and Non Degree-Seeking Student Registration for Winter '17 Intersession and Spring '18 Semester, and last day to apply for spring graduation (May '18)
Nov 22	College open - no classes in session
Nov 23-26	<b>Thanksgiving recess</b>
Dec 11	Last day to withdraw from classes
Dec 18	Last day of 15 Week Session
Dec 22	Final grades due to Registrar's office
Dec 25	<b>Christmas Day - college closed</b>
Dec 27	Grades available on web

**\*Please Note** - Reading Days are to be used as study days, and/or optional make-up class time at the discretion of faculty members. No faculty member will be assigned additional duty during the scheduled reading days and no student shall be penalized for not attending any activities/classes on a reading day