



## COURSE SYLLABUS

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**COURSE: ISC 132 MANUFACTURING QUALITY CONTROL**

**HOURS: Lecture: 2 Lab/Shop: 3 Work Exp/Clinical: 0 Credits: 3**

### **COURSE DESCRIPTION:**

This course introduces quality concepts and techniques used in industry. Topics include elementary statistics and probability, process control, process capability, and quality improvement tools. Upon completion, students should be able to demonstrate an understanding of the concepts and principles of quality and apply them to the work environment.

**PREREQUISITE(S): NONE**

**COREQUISITE(S): NONE**

### **TEXTBOOK(S) & OTHER SPECIAL REQUIREMENTS:**

Open Educational Resources (OER) are listed in the course Moodle.

### **STUDENT LEARNING OUTCOMES:**

Upon successful completion of this course, the student will be able to:

1. Calculate standard deviation, mean, and central tendency of a set of data.
2. Calculate probability of outcome of an experiment.
3. Create control chart.
4. Explain concepts of six sigma.
5. Create a plan of quality and productivity process for a simulated process.

**\*\*\*Please refer to the online version of the Richmond Community College Program & Course Catalog and the Student Handbook for current academic and general information.**