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**COURSE SYLLABUS**

**DIVISION:** Workforce Services

**Revised: January 2015**

**CURRICULUM IN WHICH COURSE IS TAUGHT:** Technical Studies, Integrated Systems  
Technology

**COURSE NUMBER AND TITLE:** MEC 154, Mechanical Maintenance I

**CREDIT HOURS:** 3

**HOURS WEEK LECTURER:** 2

**HOURS WEEK LAB:** 2

**LECTURE/LAB COMBINATION:** 5

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The OEE classes are self-paced study classes in which a student has 16 weeks to complete once enrolled. Students will complete all lab and bookwork before doing the end of chapter tests. All end of chapter tests and final exams are closed book. Upon completion of the lab, all tools, components, and supplies shall be returned to their proper location.

**i. CATALOG DESCRIPTION**

Provides an overview of basic maintenance techniques and processes for industrial mechanics and technicians who are installing and maintaining industrial mechanical and power transmission components.

**II. RELATIONSHIP OF THE COURSE TO CURRICULA OBJECTIVES IN WHICH IT IS TAUGHT.**

This course offers the basic fundamentals of mechanical systems and is necessary for today industrial maintenance technicians.

**III. REQUIRED BACKGROUND**

This course is intended for those individuals with no prior Mechanical systems.

**IV. COURSE CONTENT:**

- Mechanical safety rules
- Introduction to Power Transmission
- Introduction to measuring instruments
- Belt drives
- Chain drives

- Gear drives
- Couplings and clutches

**V. LEARNER OUTCOMES****VI. EVALUATION**

Mechanical safety rules	Module Quiz
Introduction to Power Transmission	Hands-on Lab
Introduction to measuring instruments	Assignments
Belt drives	
Chain drives	
Gear drives	
Couplings and clutches	
Bearings	Final Exam Final Hands-on Lab

**The course supports the following objectives:**

DCC Educational Objectives

1. Communication
2. Critical Thinking
3. Understanding Culture and Society
4. Information Literacy