

<b>COURSE NUMBER:</b>	470, 471 and 472
<b>COURSE TITLE:</b>	Industrial Safety Mechanical Systems - 470 Blue Print Reading - 471 Industrial Safety Electrical Systems - 472
<b>COURSE LENGTH:</b>	Semester - One Credit High School Semester - Four Credits for W.I.T.C.C.
<b>PREREQUISITE:</b>	None
<b>GRADE LEVEL:</b>	11 or 12

#### **COURSE DESCRIPTION:**

##### **MFG 1901 Industrial Safety Mechanical Systems - 1 Credit through W.I.T.C.C.**

This course covers the aspects of hand, power tool, and machine guarding safety procedures. Lockout/Tag out is also covered for all energy sources.

##### **MFG 1902 Blue Print Reading - 2 Credits through W.I.T.C.C.**

This course is designed to give meaning to the lines and symbols found on a set of blue prints. This course will use inanimate objects and familiar construction shapes or orthographic and isometric drawings to teach the understanding of shapes, sizes and dimensions. This course studies building terms and construction features of the carpentry, masonry, electrical, mechanical and plumbing trades.

##### **MFG 1908 Industrial Systems Electrical Systems 1 Credit through W. I.T.C.C.**

This course covers electrical safety procedures as well as safety as it relates to power generation, lock out/tag out and safe use of powered hand tools.

**MFG 1901 and MFG 1908 are online courses through W.I.T.C.C. website. There are no lab or face-to-face classes.**

**MFG 1902 is also an online course through W.I.T.C.C., in addition, it requires students to attend one evening lab class at the Denison W.I.T.C.C. campus per week. The date of the lab class will be arranged based on the needs of those enrolled.**

#### **COURSE RATIONALE:**

All three courses are part of the Industrial Plant Technology program at W.I.T.C.C. Blue Print reading is a required course for the Industrial Plant Technician and the Mechanical Maintenance Technician programs. Both safety courses are required for the Industrial Plant Technician program. The Industrial Safety Electrical Systems course is required for the Electrical Maintenance Technician program and the Industrial Safety Mechanical Systems course is required for the Mechanical Maintenance Technician program.

#### **METHOD OF INSTRUCTION:**

Hybrid courses combine traditional classroom instruction and online learning. Many learning activities in the course are delivered online, reducing the number of face-to-face meetings for students, allowing greater flexibility in their educational pursuits. Students Must attend the first face-to-face classroom session for class meeting times and instructional access information concerning the online portion of the course.

#### **ASSESSMENT:**

Blue Print Reading - Tests are 50%, Lab Assignments are 30% and a Final is 20%

#### **CRITICAL OBJECTIVES:**

