IM 260. INDUSTRIAL MAINTENANCE CAPSTONE COURSE. Credit Hours: 1 Hrs. Scheduled hours per week Lecture: 0 Lab: 2

Other: Varies as needed due to blended nature of presentation

Catalog Course Description: This course serves as a culmination of the Industrial Maintenance Certificate program. A project is designed and completed that demonstrates competencies and skills learned within the MTEC and IM courses of the program. NCCER Examinations are prepared for and taken. Capstone course.

Pre-requisites: Instructor Consent

Co-requisites: None

Course Learning Outcomes:

Demonstrates comprehensive understanding and application of Industrial Maintenance competencies.

Topics to be studied:

- a) Fasteners and Anchors
- b) Oxyfuel Cutting
- c) Gaskets and Packing
- d) Valves
- e) Lubrication

Relationship of Course to Program or Discipline Learning Outcomes:	
Basic understanding of safety, hand and power tools.	X
Ability to read construction and blueprint drawings.	Х
Ability to safely handle materials.	Х
Understanding of fasteners, rigging and lubrication.	Х
Ability to repair gaskets, seals, pumps and valves.	Х
Ability to test pneumatic and hydrostatic system.	Х
Ability to install bearings, couplings, chains and belts.	Х
Ability to set baseplates and align equipment.	Х
Ability to perform preventative/predictive maintenance.	Х
Ability to work with compressors and pneumatic systems.	Х
Ability to use laser alignment equipment.	Х
Advanced hydraulic system understanding.	Х
Advanced hydraulic system troubleshooting and repair.	Х

Γ

Relationship of Course to General Education Learning Outcomes:	
Composition and Rhetoric Students illustrate a fundamental understanding of the best practices of communicating in English and meet the writing standards of their college or program-based communication requirements.	X
Science & Technology Students successfully apply systematic methods of analysis to the natural and physical world, understand scientific knowledge as empirical, and refer to data as a basis for conclusions.	
Mathematics & Quantitative Skills Students effectively use quantitative techniques and the practical application of numerical, symbolic, or spatial concepts.	Х
Society, Diversity, & Connections Students demonstrate understanding of and a logical ability to successfully analyze human behavior, societal and political organization, or communication.	
Human Inquiry & the Past Students interpret historical events or philosophical perspectives by identifying patterns, applying analytical reasoning, employing methods of critical inquiry, or expanding problem- solving skills.	
The Arts & Creativity Students successfully articulate and apply methods and principles of critical and creative inquiry to the production or analysis of works of art.	X
5/3/2016	

Special requirements of the course:

- a) Reports
- b) Surveys
- c) Other

Additional information:

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