ELEC1175 - Best Maintenance Practices I

Credits:	2 (1/1/0)
Description:	More than 70 percent of equipment failures in industry and manufacturing are self-induced by a company's own maintenance workers, policies or attitudes, resulting in downtime or lost production. This course covers the best maintenance practices as determined by top industrial and manufacturing companies. This course covers permanent repairs as related to specific tasks such as bearing replacement, chains, belts, coupling, lubrication, proper alignment and packing and seals.
Prerequisites:	
Corequisites:	
Pre/Corequisites*:	
Competencies:	1. Identify the principles and the premise behind the development of best maintenance practices. 2. Demonstrate knowledge of each component of an effective preventative/predictive maintenance program. 3. Define each of the core knowledge areas for maintenance personnel. 4. Identify the safety principles and follow those principles each day. 5. Evaluate the various lubrication types and demonstrate their applications. 6. Inspect and identify different types of bearing elements, applications, measurements, clearance and installation methods, and evaluate types of failures. 7. Select appropriate types of chains and sprockets, perform drive speed calculations and identify types of failures. 8. Demonstrate the proper installation and alignment of belts and sheaves, proper tensioning and perform speed calculations. 9. Properly identify appropriate types of couplings, and demonstrate knowledge of tolerance, shaft alignment, and proper installation of couplings.
MnTC goal areas:	None

**Can be taking as a Prerequisite or Corequisite.*

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