B.T.C. Industrial Maintenance Mechanic

Student Outcomes:

1. Describe and conduct safe work practices in laboratory and industrial environments.
2. Identify and apply societal and regulatory codes and standards.
3. Describe fundamental mechanical principles, fluid mechanics, thermodynamics, and equipment design.
4. Conduct basic maintenance, troubleshooting and repair of common industrial mechanical systems.
5. Identify technical documentation.
6. Demonstrate basic structural welding.
7. Demonstrate basic computer-aided drafting and design.
8. Identify commissioning practices for equipment setup and alignment.
9. Recognize specific equipment applications for reactive, preventive, predictive, and proactive maintenance.

Major Requirements

Code	Title	Credits
Choose two credits from the following:		**2**
ESET 1100 & 1100L	Engineering Technology Orientation and Introduction to an Industrial Environment Laboratory	
or ESET 1162	Industrial Safety and Regulations	
ESET 1118	Industrial Maintenance Mechanic I	2
ESET 1118L	Industrial Maintenance Mechanic Lab I	1
ESET 1119	Industrial Maintenance Mechanic II	2
ESET 1119L	Industrial Maintenance Mechanic Lab II	1
ESET 1123	Mechanical Power Transmission I	2
ESET 1123L	Mechanical Power Transmission Laboratory I	2
ESET 1125	Introduction to Structural Welding	1
ESET 1126	Introduction to Mechanical Drafting and Computer Aided Design	1
ESET 1127	Mechanical Power Transmission II	2
ESET 1127L	Mechanical Power Transmission Laboratory II	2
Total Credits		**18**