

MECHANICAL TROUBLESHOOTING
SCOTT COUNTY SERIES
MECHANICAL PROGRAM COURSE SYLLABUS



- Total Time:** 9 Hours
- Schedule:** 3 Three-Hour Classes
- Textbook:** Power Transmission Handbook, 5th edition, PTDA
ISBN 978-0-9817331-6-6 (Required)
- Course Description:** Mechanical Troubleshooting examines diagnostic methods used to determine problems within a mechanical system.
- Course Learning Outcome:** Students will gain a better understanding of how to apply diagnostics and interpret the clues mechanical components provide.
- Course Learning Objective:** Following oral and written instruction, the student will demonstrate a fundamental understanding of the following:
- 1) What torque is telling us
 - 2) Observable wear (visual inspection and measurement)
 - 3) Oil analysis
 - 4) Sound, vibration and vibration analysis
 - 5) Heat and thermal imagery
- Evaluation Method:** The following evaluation methods will be used in the classroom:
- 1) Attendance
 - 2) Participation in classroom activities and homework
 - 3) Written evaluations

