Assessment: Course Four Column

Courses (CTE) - Electrical Systems Technology

ELM 126:Motor Maintenance

Course Outcomes	Assessment Measures	Results	Actions
Motors will be the No. 1 call they will receive for troubleshooting/ repairs - Make students aware that motors will be the No. 1 call they will receive for troubleshooting/ repairs. **Course Outcome Status:** Active **Next Assessment:** 2022-2023	**Assignment - Lab -** Used printed material from Mobil and Exxon on 1) Motor Care & Lubrication, Motor Efficiencies, Motor failures in the field, and Efficiency Opportunities through Motor Maintenance. **Criterion:** Gave 2 separate exams on motors, the importance of lubrication, insulation failures due to heat and overloading of motors.	**Reporting Period:** 2017-2018 **Criterion Met:** Yes Students gained a knowledge of the workings of motors and primary reasons for trouble calls. Tested students on various motor controls by having them complete exercises in the Troubleshooting Electric Motors Book. (11/15/2018)	
Motors disassemble, inspect for repairs, megger the windings for shorts or grounds and inspect the motor termination box - Brought in a number of motors for the students to disassemble, inspect for repairs, megger the windings for shorts or grounds. Also to inspect the motor termination box to insure adequate insulation for the motor leads in use and the spares not in use. **Course Outcome Status:** Active **Next Assessment:** 2022-2023	**Assignment - Lab -** Inspected each motor for correct reassembly. Confirmed Megger (Insulation) values. Inspect all motor terminations, cooling fans, motor nameplate, motor housing for physical damage. **Criterion:** NA	**Reporting Period:** 2017-2018 **Criterion Met:** Yes All students showed an increase in overall motor knowledge and the most common factors that cause motor failure. (11/15/2018)	