DSET2204 - Advanced Electrical and Emission Systems

Credits:	3 (1/2/0)
Description:	This course covers failure analysis of electrical systems, the recognition of causes of failures and how to interpret a wiring diagram. Lab activities include the troubleshooting of heavy-duty electrical and emission components, testing, inspecting and repair. Electrical meters will be used to diagnose, locate and repair failures. Lab work may include diagnosis, disassembly, inspection, repair, assembly and testing of program and customer-owned equipment.
Prerequisites:	• DSET1100 • DSET1130
Corequisites:	
Pre/Corequisites*:	
Competencies:	1. Demonstrate safety procedures. 2. Utilize service publications. 3. Analyze electrical system components. 4. Repair electrical system wiring/components. 5. Analyze electrical circuit diagrams. 6. Analyze dash instrument/gauge circuits. 7. Utilize electrical test equipment. 8. Analyze electrical test equipment readings. 9. Diagnose emission control devices used on diesel-powered equipment. 10. Disassemble emission control devices used on diesel-powered equipment. 11. Repair emission control devices used on diesel-powered equipment. 12. Assemble emission control devices used on diesel-powered equipment .
MnTC goal areas:	None

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