



This course covers theory and operation of lighting, warning, accessory, cooling, steering, shifting, and hitch control circuits. Monitoring and control circuits found on planters and combines are included. Testing procedures are performed using industry accepted testers

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On-Campus Lab

Prerequisites: AGME861

- Interpret older and newer style wiring diagrams
- Locate circuit types
- Describe various relay types/applications
- Identify switch types/applications
- Describe planter monitors
- Describe grain loss monitor
- Describe electronic digital circuits

- Diagram lighting systems
- Diagram electrical shifting control
- Diagram electronic hitch control
- Describe potentiometer height control
- Diagram electronic steering

Perform digital multimeter tests  
Operate generator/alternator test bench  
Describe electronic steering  
Test accessory circuits  
Test cranking circuit  
Test charging circuit

Identify various alternator brands' testing terminals  
Perform charging/cranking tester hookup  
Measure cranking circuit voltage drop  
Test lighting circuit  
Perform consumer product charging circuit tests  
Describe product safety testing

Operate alternator, starters test stand  
Use mutimeter along with service information to determine component reuse