South Central College

MEAG 1500(a) Facility Operations Maintenance

Common Course Outline

Course Competencies

1 **Explain basic wiring techniques**  
   Learning Objectives  
   - Identify standard voltages  
   - Identify electrical conductors  
   - Describe electrical resistance  
   - Explain basic wiring diagrams  
   - Identify safety procedures involved in basic wiring techniques  
   - Wire various circuits

2 **Describe basic over current protection**  
   Learning Objectives  
   - Describe circuit breaker usage  
   - Describe circuit protect devices  
   - Identify methods of fuse and breaker replacement  
   - Explain AC, DC, Amps and Ohms function of meter

3 **Explain generator service maintenance**  
   Learning Objectives  
   - Describe maintenance schedule  
   - Identify safety issues  
   - Operate generator backup test

4 **Demonstrate feed system maintenance**  
   Learning Objectives  
   - Describe feed system types  
   - Describe feed system operation considerations  
   - Review feed system maintenance schedule  
   - Preform feed system repair  
   - Describe methods of auger system repair

5 **Demonstrate basic plumbing techniques**  
   Learning Objectives  
   - Describe water system components  
   - Complete plumbing lab tasks

6 **Describe fan controls and trouble shooting techniques**
Learning Objectives
- Describe fan performance
- Describe fan control components

7 Describe basic ventilation techniques
Learning Objectives
- Identify various ventilation systems
- Describe curtain control repair and maintenance
- Describe static pressure
- Perform basic ventilation system maintenance

8 Repair and maintain medicator devices
Learning Objectives
- Describe maintenance considerations
- Perform basic medicator maintenance

9 Repair and maintain L. P. heaters
Learning Objectives
- Describe heater maintenance considerations
- Identify safety considerations
- Perform basic heat maintenance and repair tasks
- Brooders

10 Describe facility waste handling concerns
Learning Objectives
- Describe facility manure handling system
- Identify facility safety considerations
- Foaming and CO₂

11 Describe Lock out Tag out procedures
Learning Objectives
- Identify company procedures
- Demonstrate lock out and tag out procedure

12 Describe filter maintenance procedures
Learning Objectives
- Describe filter maintenance
- Identify air leaks

13 Explain meter functions
Learning Objectives
- Identify various meter devices
- Demonstrate correct meter use
14 Describe evaporative cooling systems
Learning Objectives
• Describe effective cooling system
• Describe cool cell maintenance considerations

15 Preform facility trouble shooting tasks
Learning Objectives
• Complete facility trouble shooting tasks