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Northeast Wisconsin Technical College

## 31-413-362 022731 Line Electrician-Safety 1

### Course Outcome Summary

#### Course Information

<b>Description</b>	31-413-362 LINE ELECTRICIAN-SAFETY 1 <a href="#">...This</a> course introduces students to industry safety manuals, rules, and definitions. Students will also learn safety procedures for hand and power tool use, ladders, scaffolds, pole climbing, digger derrick trucks, bucket trucks and work zone safety and setup. Students will perform related accident reviews. (Prerequisite: Accepted into Electrical Power Distribution; Corequisite: 10-804-312, Math-Algebra Trades)
<b>Total Credits</b>	1
<b>Total Hours</b>	36

#### Course History

<b>Last Revision Date</b>	3/16/2017
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#### Employability Skills

- Communicate Effectively
- Demonstrate Community and Global Accountability
- Demonstrate Personal Accountability
- Solve Problems Effectively
- Think Critically and Creatively
- Value Individual Differences and Abilities
- Work Cooperatively and Professionally

#### Program Outcomes

- TSA2 - Construct overhead electrical distribution systems
- TSA3 - Disassemble overhead electrical distribution systems
- TSA8 - Maintain electrical systems

#### Course Competencies

## **1. Discuss electric utility accidents and near miss accidents.**

### **Assessment Strategies**

by discussing electric utility accidents and near miss accidents.

### **Learning Objectives**

- 1.a. Visualize the affect of a electric utility accidents and near miss accidents.
- 1.b. Acknowledge safety rules in Safe Work Practice Manual.
- 1.c. Be aware of the hazards of overhead distribution systems.

### **Criteria**

*Your performance will be successful when:*

you discuss electric utility accidents and near miss accidents.

you associate safety rules from the Safe Work Practices manual with your electric utility accidents and near miss accidents.

you identify electric utility accidents and near miss accidents that are related to class subject.

## **2. Discuss work area protection.**

### **Assessment Strategies**

by discussing work area protection.

### **Learning Objectives**

- 2.a. Be aware of all the rules in the Work Zone Protection manual.
- 2.b. Create a work zone situation.
- 2.c. Be aware of the importance of work zone protection.

### **Criteria**

*Your performance will be successful when:*

you discuss a work area situation.

you associate rules from Work Zone Protection manual with your work area protection presentation.

you explain all equipment needed for proper work area protection.

## **3. Demonstrate proper hand signals**

### **Assessment Strategies**

by demonstrating proper hand signals

### **Learning Objectives**

- 3.a. Determine what each hand signal means.
- 3.b. Name each hand signal.
- 3.c. Apply hand signals.

### **Criteria**

*Your performance will be successful when:*

you identify each hand signal.

you identify the situation for each hand signal.

you apply hand signals.

## **4. Acquire safe pole climbing skills.**

### **Assessment Strategies**

by acquiring safe pole climbing skills.

### **Learning Objectives**

- 4.a. Use personal protective equipment.
- 4.b. Acknowledge safety rules in the Safe Work Practice Manual.
- 4.c. Be aware of hazards involved with pole climbing.

### **Criteria**

*Your performance will be successful when:*

you verify proper techniques for a safe pole climb.

you identify all equipment needed to do a safe pole climb.  
you verify with the Safe Work Practices manual all rules involved with pole climbing.

## **5. Demonstrate proper knots.**

### **Assessment Strategies**

by demonstrating proper knots.

### **Learning Objectives**

- 5.a. Determine what each knots purpose.
- 5.b. Name each knot.
- 5.c. Apply knots.

### **Criteria**

*Your performance will be successful when:*

you verify all types of knots.  
you verify what each knots purpose.  
you tie a bowline.  
you tie a bouble bowline.  
you tie a triple rescue bowline.  
you tie a bowline on a bight.  
you tie a running bowline.  
you tie a square knot.  
you tie a figure eight knot.  
you tie a sheep shank.  
you tie a overhand knot.  
you tie a timber hitch.  
you tie two half hitches.  
you tie a catspaw knot.  
you make a short splice.  
you make a eye splice.  
you make a crown knot and short splice.

## **6. Acquire safe truck operating skills.**

### **Assessment Strategies**

by acquiring safe truck operating skills.

### **Learning Objectives**

- 6.a. Use personal protective equipment.
- 6.b. Acknowledge safety rules in the Safe Work Practice Manual.
- 6.c. Be aware of hazards involved with truck operations.

### **Criteria**

*Your performance will be successful when:*

you illustrate proper safe operations of bucket trucks.  
you illustrate proper safe operations of digger derrick trucks.  
you verify with the Safe Work Practices manual all rules involved with truck operations.