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**Course: Electrical Systems Overview**

**Location:** Employee Development Center (EDC) – Red Deer

**Delivery Method:** Classroom/Labs

**Course Length:** 7.5 hours

**Scope of Training:** This training is provided to orient employees on the various components of the electrical grid system, facets of the power line trade and associated safety hazards unique to the industry.

**Target Audience:** Any non-trade employees of an electric utility or contractor company who require a general knowledge of the electric utility industry in Alberta.

**Subject Matter:**

The course will include general knowledge of the industry and grid system covering:

- Power grid system overview
- Basic electricity concepts
- Electrical safety and hazard awareness
- Line equipment and tool identification
- Meter reading
- System trouble situations
- Industry and trade terminology

**Learning Objectives:**

At the completion of this session the participants will be able to:

- Comprehend rudimentary electrical theory and how it applies to the functions of the system
- Identify the major components of an Electric Utility system and how they relate
- Recognize various materials and equipment used on the distribution system
- Identify some of the fundamental line tools used in the field
- Be aware of safety hazards related to the system and basic precautions to avoid injuries and damages
- Determine general problems that may cause system outages and service quality problems
- Comprehend basic metering, meter readings and how the readings are used to produce a billing statement
- Reference terms used in the power line trades
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**Maximum Class Size:** 12 students

**Estimated Cost:** \$3800.00/session

Please contact us at [edcexternaltraining@fortisalberta.com](mailto:edcexternaltraining@fortisalberta.com) with questions regarding a firm quote as these costs are estimated and details about the course and delivery.