
Course: Equipotential Bonding & Grounding

Location: Employee Development Center (EDC) – Red Deer

Delivery Method: Classroom

Course Length: 5-6 hours

Scope of Training: This course is intended to support a safe, consistent approach to applying Equipotential Bonding and Grounding (EB&G) by all employees who perform these tasks as part of their work. This training is delivered to orient the participant to the electrical theory that supports this work method. It also introduces the company standards/procedures employees must follow when applying EB&G.

Target Audience: External workers that are required to apply EB&G procedures on a distribution power system.

Subject Matter:

The course will cover the basic theory behind EB&G. FortisAlberta's Standards and Procedures for EB&G will be referenced throughout the course. Within the standards, key roles, responsibilities, common terms, related hazards and the application of general EB&G procedures will be reviewed.

*Procedures required to manage special or unique EB&G situations will not be covered. Examples would be bonded areas, construction authorization, rubber glove lock-to-lock rule.

Learning Objectives:

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

- Access & reference the associated company standards for EB&G & describe an equipotential zone
- Understand basic EB&G fundamentals, practices and procedures
- List various ways that a power line may become accidentally energized
- Explain the purpose of the tripping ground, the bonding jumpers, a pole band and a bond mat and the factors to consider when applying them to produce an equipotential zone
- Determine how to manage overhead electrical hazards that may be present at ground level (ie: risks to the groundman when handling conductors or material around the job site)
- Define the term jobsite, when work is performed at single or multiple locations
- Describe generic work practices to produce an equipotential zone when working on overhead structures and conductors
- Describe generic work practices to produce an equipotential zone when working on underground cables and pad-mount equipment
- Explain when it is appropriate and how to bond aerial devices into the zone

Maximum Class Size: 12 students

Estimated Cost: \$3750.00/session

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