

Course Outline for Half-Day Basic Electrical Safety Training

Who Should Attend: Supervisors, JHSC, H&S Reps, Maintenance/Engineering personnel and anyone who as part of their job, need to be aware of the basics of electrical theory would benefit from this training.

Maximum # of participants: 15

Prerequisites: None

Duration: Half-Day

Record of Training: All participants who successfully complete this program will receive a “Certificate of Attendance.”

Learning Objectives: At the conclusion of this training, participants will have a basic understanding of the principles of electricity. This Program is **NOT** a Lockout training program.

The following topics will be discussed with active class participation.

Time	Learning Objective	Structure and Content
08:00 - 08:15	Meet and Greet	Registration, Introductions Review course schedule and objectives
08:15 - 08:45	Legislative awareness Visual learning Practical Exercise	Discuss Ministry of Labour fatality Incident handout Video clip (WSIB) Case Study-U.S. Dept. of Labour
08:45 - 09:05	Theoretical learning	Explain electrical safety basics and energy flow Learn the fundamentals of electricity theory: Shock Factor-Physical Effects, Electrical Hazards
09:05 - 09:20	Practical exercises	Case Study – Arc ignites Sawdust
09:20 – 09:40	Theoretical learning	Definitions, Protection, Rules of Electricity and Grounding
09:40 -10:00	Visual learning	View Basic Electricity DVD
10:00 -10:20	BREAK	
10:20 -10:30	Knowledge	Safe Electrical Operation of Equipment, Tools & Accessories
10:30 -11:00	Practical exercises	2 Case Studies-Machine maintenance & Voltmeter cases
11:00 -11:20	Knowledge	Examples of Work Activities Requiring Lockout, Causes of Lockout Injuries, Electrical Safety- Standards/Guidelines Lockout Definitions, Safe Lockout Practices and Facility Lockout Procedures
11:20 -11:50	Knowledge Verification	Apply knowledge - Quiz
11:50 -12:00	Course Evaluation	Distribute and Collect Course Evaluations