

## **Electrical Hazards - Still Causing Injuries**

**When Exposed To Electric Shock Or Related Fires or Explosions. In 2002, The Bureau of Labor Statistics Noted 289 Employees Were Killed By Contact With Electric Current.**

- **The human body will conduct electricity when direct contact is made with an energized source and simultaneously with another conductive surface. The result of this electrical shock causes workers to suffer pain, injuries and even death**
- **Current as low as 3 milliamperes, can cause injuries or death as a result of collisions or falls from the involuntary reaction from the shock**
- **Exposure to electric current can be caused by any one or any combination of three factors: unsafe equipment and installations; unsafe environment (unsafe conditions); and unsafe work performance (unsafe acts)**
  - **Unsafe equipment and installations can be caused by faulty insulation, improper grounding, loose connections, defective parts, ground faults in equipment, unguarded live parts, and underrated equipment**
  - **Unsafe conditions/environments include areas with flammable gases, liquids or vapors; corrosive atmospheres; and wet and damp locations**
  - **Unsafe acts include: failure to de-energize electric equipment while being repairing or inspecting(Lockout/Tagout); use of defective tools; use of tools or equipment close to energized sources**
- **Controls involve the use of: insulation and guarding of live parts; adequate grounding and circuit protective devices, including fuses, circuit breakers, and ground fault circuit interrupter**

**For Additional Information See the Loss Control Guide  
“Ground Fault Interrupters”**

**If You Have Any Questions or Need Assistance  
Contact Your CompWest Loss Control Consultant  
Or Request Assistance on the CompWest Web Page.**