Shop Safety 101

Jason Spohr
Fleet & Facilities Manager
Tahoe Transportation District
jspohr@tahoetransportation.org

Why do shop related injuries happen?

- Distractions
- Lack of proper instruction
- Failure to follow procedure
- Safety procedures are inconvenient
- Taking short cuts
- Pride
- Assumption that a policy in unnecessary
- Unaware of a safer alternative

Most common shop injuries

- Slips and falls
- cuts
- Blunt trauma (Head-Concussion)
- Sprains, Strains-Lifting
- Stored energy (Non-Electrical)
- Eye injury (foreign object)

What is the true cost of an injury?

- Cost to the individual
  - Pain & Suffering
  - Physical ability
  - Emotional trauma
  - Financial
  - Identity
  - Time
- Cost to the company
  - Productivity
  - Image & Reputation
  - Ability to provide services
  - Financial

Policy vs. Reality

- Safety Meetings
- SOP’s
- Notification Board
- Acknowledgement Letter
- Model safe behavior
- Employee participation
- Reward vs. Penalty
- Assignment of safety leader

High Voltage Safety

- **Training & Certifications:** Agencies must provide specialized training for high-voltage maintenance, including 15+ hours for live-line work, following 49 CFR Part 672 and PTASP regulations.
- **High Voltage Procedures:** Mandatory procedures include lockout/tagout, test area safeguarding, and grounding to protect employees from arc flash, explosion, and electrocution.
- **Vehicle Safety Standards:** Compliance with high-voltage protection for electric vehicles includes IPXXB or IPXXD protection levels for passengers and operators, insulation monitoring systems, and shielding.
- **Equipment & PPE:** Use of properly rated, inspected PPE (gloves, insulating mats) and specialized insulated tools.
- **Worker Protection:** Implementation of specific worker protection programs (especially for rail) by late 2025, following 49 CFR Part 673.

High Voltage Safety

EV Training

Shipped to
1679 SHOP ST
SOUTH LAKE TAHOE, CA 96150-3603
US

Billed to
Jason Spohr
Tahoe Transportation District
128 Market Street
Stateline, NV 89449
United States of America

VIN #

Date
Mar-31-2026

Due
Apr-30-2026

Item	Description	QTY	Rate	Amount	Tax
Training:Training-Proterra	HV bus Training 3 Days	1.00	7,999.99	7,999.99	Tax
Labor:Standard Labor Rate	On Site Technician 2 Days Post Training	16.00	275.00	4,400.00	Tax
Sales Tax	Sales Tax calculated by AvaTax for 12449-V3 at Tue Mar 31 01:41:57 UTC 2026	1.00	0.00	0.00	Non

1 - 3 of 3 records.

Customer Message
Service Manager traveled to location and completed Training/diagnose on site.

Subtotal	12,399.99
Taxes	0.00
Total (USD)	12,399.99
Payments / Credits	0.00

High Voltage Safety

https://www.transit.dot.gov/sites/fta.dot.gov/files/2023-08/FTA-Report-No-0252.pdf

Introduction

Aaron Joe Boles

Director of Business Development

joe@etienergytools.com

Mobile: +1 (661) 549 8887

Fort Worth, TX 76226

Tehachapi, CA 93561