

**Course Title:** Arc Flash Safety (NFPA 70E)

**Course Duration:** 3.0 Hours

**Course Description:** To provide workers the skills and knowledge needed to work safely and protect themselves from an arc flash. With new regulations coming down from OSHA and the NFPA, all workers that could be exposed to an arc flash are required NPA 70E training. This includes Water Treatment and Wastewater Treatment operators.

**Topics include:**

- Best & safest practices while working to prevent an arc flash
- PPE and PPE Arc Flash Rating System
- Arc Flash Warning Labels
- Common terms
- Procedures & tools
- Different types of hazards
- Emergency response

**Course Outline:**

Introduction/Covered Items <ul style="list-style-type: none"><li>• Course description</li></ul>	5 minutes
Standards (NFPA, NEC, OSHA, ANSI) <ul style="list-style-type: none"><li>• Reasons for training</li><li>• When training is needed</li></ul>	10 minutes
Definitions <ul style="list-style-type: none"><li>• All definitions of Arc Flash Safety</li></ul>	60 minutes
Controls <ul style="list-style-type: none"><li>• PPE</li><li>• Categories of Protection</li><li>• PPE Arc Flash Safety Rating System</li></ul>	40 minutes
Classroom Break	15 minutes
Operations <ul style="list-style-type: none"><li>• Boundaries/Access Areas</li><li>• Barriers/Barricades</li><li>• Tools &amp; equipment</li><li>• Cleaning &amp; storage</li><li>• Electrically safe working conditions</li><li>• Lockout-Tagout</li></ul>	30 minutes
Hazards <ul style="list-style-type: none"><li>• Fall Protection/Ladder Safety</li><li>• Confined Spaces</li><li>• Exposure/Burns</li><li>• Electrical/Fire Hazards</li></ul>	50 minutes
Emergency Response <ul style="list-style-type: none"><li>• First-Aid/CPR</li><li>• Contact Release techniques</li></ul>	15 minutes
Conclusion	5 minutes

<ul style="list-style-type: none"> <li>• Questions</li> <li>• References</li> </ul>	
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**Time Schedule:** 3-3.5 hours

**Training Methodology & Evaluation:** This course is an in-person class. The students will gain knowledge on fall protection, arrest systems, and the following regulations:

- NFPA 70E - Standard for Electrical Safety in the workplace
- NEC Article 110.16 - Arc Flash Hazard Warning
- Article 240.87 - Arc Energy Reduction
- 29 CFR 1910.269 Subpart R – Special Industries
- Subpart S – Electrical, General Industry
- 29 CFR 1926 Subpart V – Electric Power Transmission & Distribution
- ANSI Z535 - Safety Signs and Tags

Every participant will receive a Competent Person wallet card at the end of the course.

**Instructor Bio/Credentials:** The course will be given by the City Safety Manager/Regulatory Specialist, Brian Warren. Brian is currently the Lead Chair of the City of Pendleton Safety Committee and has ran safety meetings and safety committees in the public and private sector for over 20 years. He is certified as a Safety Trained Supervisor by the Board of Certified Safety Professionals, a member of the Blue Mountain Occupational Safety & Health Conference, a member of the American Society of Safety Professionals, a member of the National Association of Safety Professionals and has given OESAC approved courses to municipalities and at conferences.