

## Why should you be concerned about arc flash?

Arc flash burns account for 38% of the total electrical related injuries, and cause a disproportionately high number of days lost from work because of the “burn type” nature of arc flash injuries.

A combination of NFPA and OSHA standards require that arc flash hazards be labeled and that personnel are properly warned and trained on how to identify and protect themselves from these hazards.

Even highly skilled electricians may not be aware of the level of the hazard present, or the proper PPE required if the label and information are not available.

A combination of proper analysis, labeling and training can prevent lost time injuries and expensive equipment downtimes caused by arc flash events.



We can provide an arc flash hazard analysis and training for your facility to identify hazards and ensure employees are properly trained to work safely.

## Arc Flash Services



- Onsite Arc Flash Analysis
- Electrical Safety Training
- Infrared Thermography



### SERVICES

Electrical, Control and Power Systems  
Engineering, and Technical and  
Construction Support Services



### MARKETS SERVED

Industrial, Utility, Commercial,  
Institutional and Government



### RESOURCES

Technical Articles, Industry Links,  
and Newsletter



### Excel Engineering, Inc.

Engineering Solutions to Help Achieve Your Business Objectives

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# Engineering Solutions to Help Achieve Your Business Objectives

## ONSITE SOLUTIONS

- DATA COLLECTION
- POWER SYSTEM MODELING
- ENGINEERING ANALYSIS
- FIELD LABELING
- ELECTRICAL SAFETY TRAINING
- WRITTEN ELECTRICAL SAFETY PROGRAM
- INFRARED THERMOGRAPY



Our team of engineers can perform a comprehensive arc flash analysis and provide a facility owner with the necessary information workers need to safely work on electrical equipment and to be compliant with OSHA and NFPA standards. Based on the results of the arc flash study, we provide custom arc flash labels for your equipment, updated electrical drawings, a full report including analysis and recommendations to reduce and/or properly address arc flash hazards which are present.

## Is your business compliant?

### OSHA 1910.335

Employees working in areas where there are potential electrical hazards shall use electrical protective equipment appropriate for the specific parts of the body for the work being performed

### OSHA 1910.332

Practices addressed in this standard. Employees shall be trained in and familiar with the safety-related work practices required by 1910.331 through 1910.335 that pertain to their respective job assignments.

### NFPA 70E 2015

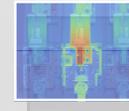
NFPA 70E is the “How To” guide for companies compliance with OSHA’s regulations. NFPA70E requires employer to:

- 1) Perform an arc flash assessment to inform employees and contractors of the electrical hazards,
- 2) Ensure that employees and contractors are properly trained and qualified, and
- 3) Have a written electrical safety program.



### Onsite Arc Flash Hazard Analysis

Excel has a reputation for quality and customer satisfaction. Our experienced team of professionals have performed arc flash hazard analysis for a number of fortune 500 companies and are able to provide unparalleled service to each client.



### Infrared Thermography

Excel Engineering and our partners can provide client tailored thermal scanning of electrical assets by an ASNT compliant Level III thermographer. We can identify potentially hazardous and expensive equipment failures before they happen.



### Electrical Safety Training

OSHA and NFPA70E required employees exposed to electrical hazards be trained to work safely. Excel’s electrical safety training will prepare your workers to identify hazards and use “safe work practices” to prevent injuries. We can tailor our training to your specific needs and provide “real world” applications.



## WE’VE WORKED WITH A DIVERSE CUSTOMER BASE. HOW CAN WE HELP YOU?

Excel Engineering has performed hundreds of studies in various industry sectors for clients with small facilities as well as large corporate campuses of over 8 million square feet. Because of our thoroughness and efficiency, we are the preferred vendor for several of these companies.

