

WRITTEN ELECTRICAL SAFETY PROGRAM ASSISTANCE & SUPPORT

SAS has a dedicated team to assist you in developing and defining a corporate electrical safety program for your organization. Our goal is to help you establish a program that is manageable and enforceable so that you can ensure company-wide compliance as well as consistency in regards to safety across your entire business. Whether starting from scratch or looking to refresh your existing program, SAS can help.

THERMOGRAPHY

All electrical equipment is rated based on the maximum temperature that each component can safely be operated. As we know, electrical current flowing through any conductor or component produces heat and since the amount of heat produced varies, the ability of the conductor or component to dissipate that heat into the ambient environment is paramount. Electrical components operating at elevated temperatures will cause accelerated deterioration of both the component and the insulation protecting the component. Thermographic scanning of electrical components can identify these elevated temperatures and indicate the necessity for corrective action before a failure.

Thermography uses infrared cameras to measure temperature or excessive heat build-up. This method is not only accurate, but cost-effective and noninvasive. Maintenance personnel and engineers have long used thermography as it is very beneficial in detecting loose connections, damaged or overloaded components, and weak or poor wiring. This routine inspections and reporting can save a company from having to deal with emergency situations where equipment fails and production comes to a halt.

By combining your on-site data collection (done during the arc flash risk assessment) and thermal imaging, your costs per service are reduced as the panels only need to be accessed one time.

NFPA 70E COMPLIANCE SUPPORT

SAS has a staff of highly experienced loss control and risk managers. They can assist you in avoiding OSHA fines and citations. If you have already been cited or are involved in a worker's compensation claim, the SAS staff can assist you in meeting all requirements to help mitigate penalties and reduce possible costs on claims.

SAS is here to work with you to prevent injury and penalty by helping you establish and maintain a complete electrical safety program.

NFPA 70E DEFINES A QUALIFIED PERSON AS FOLLOWS:

One who has skills and knowledge related to the construction and operation of the electrical equipment and installations and has received safety training to recognize and avoid the hazards involved.

NFPA 70E Article 110.6(D)(1)

- (a) Such persons shall also be familiar with the proper use of the special precautionary techniques, personal protective equipment, including arc-flash, insulating and shielding materials, insulated tools and test equipment. A person can be considered qualified with respect to certain equipment and methods but still be unqualified for others.
- (b) Such persons permitted to work within the Limited Approach Boundary of exposed energized electrical conductors and circuit parts operating at 50 volts or more shall, at a minimum, be additionally trained in all of the following:
 - (1) The skills and techniques necessary to distinguish exposed energized electrical conductors and circuit parts from other parts of electrical equipment
 - (2) The skills and techniques necessary to determine the nominal voltage of exposed energized electrical conductors and circuit parts
 - (3) The approach distances specified in Table 130.2(C) and the corresponding voltages to which the qualified person will be exposed
 - (4) The decision-making process necessary to determine the degree and extent of the hazard and the personal protective equipment and job planning necessary to perform the task safely
- (c) An employee who is undergoing on-the-job training and who, in the course of such training, has demonstrated an ability to perform duties safely at his or her level of training and who is under the direct supervision of a qualified person shall be considered to be a qualified person for the performance of those duties.
- (d) Tasks that are performed less often than once per year shall require retraining before the performance of the work practices involved.
- (e) Employees shall be trained to select an appropriate voltage detector and shall demonstrate how to use a device to verify the absence of voltage, including interpreting indications provided by the device. The training shall include information that enables the employee to understand all limitations of each specific voltage detector that may be used.

NOT SURE YOU NEED SAS?

Look over our evaluation to see if SAS is right for you at ArcSafety.com.