

# What is an **ARC FLASH HAZARD ANALYSIS** Why is it Required?

**INNOVATIONS**



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Every 30 minutes an electrically induced injury occurs in the workplace with severe results, such as skin burns, respiratory issues, hearing loss, and eye damage. These injuries occur in fractions of a second due to a sudden arc flash. An arc flash, or arc blast, is an electrical explosion that results from a low-impedance connection to ground or another voltage phase in an electrical system. This electric arc is supplied with sufficient electrical energy to cause substantial damage, fire, or injury. The subsequent result is unscheduled downtime, expensive repairs and replacement, regulatory fines, and worst of all, personnel injury or death.

An Arc Flash Risk assessment is a detailed power system study consisting of collecting on-site data from electrical components and entering that data into engineering software, for identifying protection boundaries, and required personal protective equipment while working on electrical equipment. An assessment provides field data collection, development of electrical one-line diagram, calculation of the potential hazard for each electrical component and generating labels.

## **This session will cover:**

- » Brief introduction to Arc Flash
- » What is an Arc Flash Assessment?
- » Why perform an Arc Flash Assessment?
- » SEAM Group's approach to Compliance

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