



# Arc Flash Study Training Course

# Course Description

## **The certification process typically includes:**

- workshops, case studies, and examinations to assess candidates' understanding and application of reliability principles and their ability to lead reliability improvements in their workplace.

# Course Objectives

## After completion the course the learner will be able to:

- Know the different standards and regulations in Arc Flash (OSHA, NFPA and NEC).
- Understand arc flash basics, hazards, causes, leading factors, and related consequences.
- Review fundamental principles of electricity, electrical components, and systems.
- Learn the steps involved in conducting an arc flash study, importance of accurate system modelling and data collection.
- Understand arc flash hazards and risk assessment.
- Identify the proper and different Personal Protective Equipment (PPE) while dealing with devices that tend to initiate Arc Flash.
- Knowledge of safety procedures for working with electrical systems to reduce the risk.
- Understand the Arc Flash Protection hazard controls methods as design control and Lock-out/ bn
- Identify the Employer and employee Responsibilities.
- Understand the different boundaries in Arc Flash Protection and methods of boundaries calculations.
- Recognize the components of the new labelling system for Arc Flash.
- Recognize the requirements for a Qualified Persons and the proper training.
- Develop knowledge of emergency response procedures in the event of an arc flash incident.
- Understand the importance of continuous improvement in arc flash safety.

# Course Contents

## **The course has the following contents:**

- Introducing Arc Flash
- Arc Flash's Destructive Force, event, and Intensity
- Basic of electricity and Arc Energy Basics
- Electrical Safety standards, regulations, and Requirements
- Arc flash hazard analysis & Risk Assessment
- Personal Protective Equipment (PPE)
- Arc flash Safe work practices and Example of Design Control
- Emergency response and first aid (Burns)
- Employer and employee Responsibilities and Qualified Persons
- Approach boundaries, and how to determine boundaries
- Labelling and Insulated Tools, and Lock-out/Tag-out
- Case Study and real examples
- Specific learning videos
- Course review and assessment

# WHO SHOULD ATTEND?

- Managers.
- Supervisors.
- Safety Directors.
- Safety Consultants.
- Other Leaders within an organization.
- This program also benefits individuals seeking to break into the safety industry.
- Arc Flash is found in different workplaces (oil & gas, workshops,..etc.).

## Course Language:

- English & Arabic (Classroom).

## Delivery Method:

- Online and classroom for individuals, groups and company employees.

## Course Duration:

- 5-day classroom or online

## Assessment:

- Is assessed by a 45 multi choice question (If you are studying online, your exam is online). You must score 80% to receive certification.