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Course Name

ARC Flash Hazard Analysis: Impact, Control & Safety

Sector Name

Electrical Engineering

Document Type

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Course Introduction

Electrical safety

Electrical safety is an important issue for those working on electrical facilities in utility networks and large industrial installations. A number of serious accidents, including fatalities, occur every year due to accidents involving electricity, resulting in huge financial losses and wasted man-hours. Arc flashes in electrical equipment are now considered one of the major causes of electrical accidents, even surpassing the well-known hazards of electric shock. Avoiding arc flash incidents and the resulting injuries is one of the major challenges facing electrical workers today and requires adequate attention in the stages of system planning, design, installation, operation, and maintenance.

Injuries due to arc flash can depend on many factors, one of which is the incident thermal energy on a worker exposed to a flash. Today, a considerable body of knowledge exists as a result of research efforts and is available to designers and maintenance engineers in the form of standards such as IEEE 1584 and NFPA 70E. This program will detail the basis of this approach and also the major advances that have been made in the area of PPE made of FR fabrics and rated for different levels of thermal exposure. Prevention, however, still remains the best form of protection, and switchgear manufacturers

have made considerable design advances to ensure that the effect of arc flash incidents is contained within the enclosure of switchgear (often called arc flash resistant switchgear), and methods of testing such switchgear have also evolved simultaneously. Another important factor is the approach to avoid arc incidents within the switchgear by proper design and maintenance, and techniques to reduce the severity of the flash should such incidents occur.

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Target Audience

- ✓ Power system protection engineers
- ✓ System planners
- ✓ Technical staff responsible for Smart Grid integration into power system monitoring and control

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Learning Objectives

- ✓ The importance of arc flash accident prevention in medium and high voltage electrical installations
- ✓ The necessity of working safely
- ✓ The dangers and hazards of high-voltage electrical faults
- ✓ How to avoid accidents at your workplace
- ✓ Refresh your knowledge of the importance of safety in high-voltage installations
- ✓ Understand the hazards of electricity
- ✓ Identify the dangers and risks of accidents in a high-voltage installation
- ✓ Appreciate the principles of safety cultures
- ✓ Be careful and aware of arc flash accidents
- ✓ Recognize the effort of safety committees and their recommendations

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Course Outline

✓ DAY 01

Module (01) What are arc flash hazards and their relevance to IEC, OSHA, and NFPA standards?

- ✓ Overview and definition of arc flash hazards
- ✓ International standard requirements against arc flashes
- ✓ Implementation of lockout out tagout and its significance
- ✓ Arc flash and other electrical safety hazards
- ✓ IEC Standard Time/Current Zones: Effects of AC currents on persons
- ✓ Electrically safe working environment
- ✓ How overcurrent protective devices can reduce arc flash hazards
- ✓ Grounding and arc faults
- ✓ Case Studies and Work Sessions

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Course Outline

✓ Day 02

Module (02) The impact of arc flash accidents. How can such incidents be avoided and controlled?

- ✓ Factors determining the severity of arc flashes and arc blasts
- ✓ Implementation of electrical safety programs
- ✓ Electric shock hazards
- ✓ Arc flash incidents
- ✓ Arc flash safety solution
- ✓ How to avoid arc flash accidents?
- ✓ Arc-proof switchgears
- ✓ Current limiting fuses and arc flash
- ✓ Case studies and work sessions

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Course Outline

✓ Day 03

Module (03) Understanding limits of approach boundaries and their significance. Hazardous areas classifications and labeling

- ✓ Limits of approach
- ✓ Hazardous Area Classifications
- ✓ Importance of hazard warning labeling
- ✓ Electrical intrinsic safety
- ✓ Incident energy
- ✓ Hazards risk categories
- ✓ ATEX
- ✓ DSEAR
- ✓ Discussion and case studies

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Course Outline

✓ Day 04

Module (04) Arc flash safety and hazard analysis. Control of internal arc faults

- ✓ Arc flash hazards analysis
- ✓ Arcing flash safety and maintenance
- ✓ ARMS – Arcflash Reduction Maintenance Switch
- ✓ Incident energy versus bolted faults
- ✓ Personal protective equipment categories
- ✓ IEC standards on arc flash hazards
- ✓ Consequences of an internal arc
- ✓ Discussion and case studies

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Course Outline

✓ Day 05

Module (05) Arc flash accident prevention programs, solutions, risk assessments, and safety committees

- ✓ Arc flash accidents and prevention
- ✓ Arc flash hazards calculations
- ✓ Avoiding arc flash blasts
- ✓ Risk Assessment applied to Electrical Equipment and Isolation
- ✓ Examining Ways to Improve the Company’s Existing Electrical Safety Record
- ✓ Safety committees and responsibilities
- ✓ Accident prevention programs
- ✓ Questions and answers, course wrap-up

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Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
March 15, 2027	March 19, 2027	5 days	4250.00 $	UAE , Dubai
Aug. 30, 2027	Sept. 3, 2027	5 days	4950.00 $	Netherlands , Amsterdam
Jan. 4, 2027	Jan. 8, 2027	5 days	4250.00 $	UAE , Dubai
May 24, 2027	May 28, 2027	5 days	4250.00 $	UAE , Dubai

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