

ARC FLASH AWARENESS TRAINING COURSE





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Arc flash stands as one of the predominant causes of injuries and fatalities in the electrical industry. Recognising the critical need for comprehensive training and awareness, this Arc Flash Awareness course has been designed to equip participants with the essential skills, knowledge and competencies necessary to mitigate the risks associated with arc flash incidents.

As a step toward fostering a safer working environment for electrical professionals, this course delves into various facets of arc flash, from understanding the dynamics and consequences to implementing effective management strategies.

By delving into this comprehensive content, participants will emerge not only with a heightened awareness of arc flash but also with the practical skills needed to contribute to a safer and more secure electrical working environment.

TESTIMONIALS

The Arc Flash course is excellent and starts with a confronting video presentation which sets the focus brilliantly, ensuring that the course material and information is absorbed. I feel a lot more confident about arc-flash assessment and management after completing this course and I'll be using what I learnt next week. Definitely one to recommend." **Andrew Kennedy – Principal Engineer at Star Electrical.**

"You realise how important it is to do this training after you have done the course." **Michael Paix – Paix & Henderson Electrical Contractors.**

"Comprehensive course that is highly beneficial to many in the electrical industry. The pace of the course is just right. Excellent presentation! Excellent skills and knowledge gained. I would definitely recommend this course to my colleagues." **Michael.**



“Our mission is to provide high-quality electrical training for the safety and well-being of all, including those in their homes and at work.”

Chris Halliday – In Person Trainer

With an extensive career spanning five decades in the electrical industry, Chris is a distinguished expert in electric incident/shock investigation, electric fire investigation, arc flash, electrical safety, and power quality strategy and training.

He is regularly delivering presentations at numerous conferences and contributing articles to a variety of reputable trade publications.

Chris's qualifications include a Masters Degree in Electrical Power Engineering, a Graduate Diploma in Management, an Advanced Diploma in Occupational Health and Safety (OH&S), a Certificate IV in Training and Assessment, and an Advanced Certificate in Industrial Electronics. In addition, he holds a license as a Qualified Supervisor - Electrician in NSW, having initially started his career with an electrical trade before transitioning into the field of electrical engineering.

Chris is deeply passionate about elevating safety standards and advancing the level of safety education within the electrical industry.



”Our online training centre enables 24/7 access to all our training courses for those working in this specialised industry.”

Daniel Halliday – Online Trainer

Daniel brings a wealth of practical experience to PowerLogic with his 20+ years in the industry.

Daniel ran his own electrical contracting business through PowerLogic before swapping to training. He has experience in home automation, power quality investigations, energy management, comm’s cabling, and non-destructive testing of large motors and generators including thermal imaging.

He is a member of EESA, MEMMES and the Institute of Electrical Inspectors (IEI) and represents IEI on some Australian Standards Committees. His qualifications include an Advanced Diploma in Electrical Engineering, Certificate IV in Workplace Health and Safety, Certificate IV in Training and Assessment, Certificate II in Air Conditioning and Refrigeration, Electrical Trade Certificate

He is a Licensed Electrical Supervisor - Electrician in NSW and is currently studying a bachelor’s in electrical engineering.



DETAILED COURSE CONTENT

ARC FLASH AWARENESS

Arc Flash is one of two leading causes of injuries and deaths in the electrical industry. This Arc Flash Awareness course aims to give participants all the skills, knowledge and competencies to help ensure that electrical workers don't succumb to an arc flash incident.

Arc Flash course is an in-depth, comprehensive course for professionals seeking to ensure a safer work environment for themselves and their colleagues.

The Content of the Course Includes

- Introduction
- Understanding Arc Flash
- Arc Flash Injuries and Management
- Causes of Arc Flash
- Arc Flash Standards
- Arc Flash Management
- Arc Flash Labelling
- Human Factors & Solutions
- PPE Selection & Issues
- Job Planning
- Case Studies and Conclusions

Introduction

The first module is all about setting the scene for the entire course looking first at a case study where things go terribly wrong, moving into the effects if we get it wrong, the regulation, along with a message from one of the safety regulators in Australia.

Understanding Arc Flash

Here we dive right into what is an arc and what's happening in and around the arc, getting an understanding of the arc flash event and also the incident energy levels along with the arc flash boundary.

Arc Flash Injuries and Management

This module looks at what are the likely injuries that can result if one was to be involved in an arc flash event and also how to deal with those injuries.

Causes Of Arc Flash

Understanding how an arc flash event comes about and the common causes involved, goes along way in preventing these incidents, this is what this module is all about.

Arc Flash Standards

This module looks at the relevant Australian and overseas standards and their requirements for the management of the arc flash hazard and including the detail for calculating

the arc flash energy and arc flash boundary.

Arc Flash Management

This module looks at using the hierarchy of controls to manage the arc flash hazard from elimination through to PPE. Some areas of focus are old/new and retrofitting of equipment, arc-contained switchgear, protection issues, installation issues, operating tasks, maintenance, testing, administrative controls and PPE.

Arc Flash Labelling

The specifications around labelling, the do's and don'ts, where to install them and what's needed on the label are detailed in this module of the course.

Human Factors and Solutions

Understanding that in most cases the interaction of humans and electrical equipment is generally the reason, how these events occur in the first place is important. This module highlights how and why arc flash events come about from a human factor perspective.

PPE

Our very last line of defence is PPE, here everyday clothing is discussed, along with the levels of protection, under and outer garments, care and maintenance, head/face and foot protection, the incorrect PPE and what not to wear.

Job Planning

This module discusses what needs to be considered before every job, a checklist is referenced if you haven't already got a checklist implemented.

Case Studies & Conclusions

Two case studies are looked at to help give a better understanding and to highlight some issues and electrical worker might come across in their daily work and the learning from these. Finally, a brief summation and some conclusions complete this Module.

Assessments

Trainees must demonstrate competence at the end of each section of this training course.