FIRE INDUSTRY ACADEMY

Training Course Pathway

CPC50520 DIPLOMA OF FIRE SYSTEMS DESIGN

COMBINED ANNUAL CERTIFIER AND FIRE DETECTION STREAM

This combined course is for practitioners to learn how to:

- **inspect existing fire systems; assess compliance with the relevant legislation, codes and standards; and report on whether they continue to perform to appropriate fire safety standards; and**
- **prepare detailed technical designs and documentation for fire detection and warning systems, including smoke detection and alarm systems, smoke hazard management systems and occupant warning systems.**

The course is designed for inexperienced fire safety assessors / annual certifiers, and fire systems designers, or anyone wanting to extend their skills and knowledge.

Are there any special requirements needed to take this course?

- Participants must be employed in the fire industry and have the capacity to undertake the inspection of a range of complex building types to determine and report on the performance of fire safety measures installed in the building.
- Participants must be employed in the fire industry and have the capacity to complete fire systems designs and documentation for actual construction projects.
- Participants require access to a personal computer or tablet to enable use of the on-line learning system.
- Participants must have access to the following software to support production of designs and documentation:
  - Computer Aided Design (CAD) or appropriate drawing software
  - Software to complete electrical calculations
  - Word processing and spreadsheets

What does the course cover?

The course provides participants with the skills and knowledge for a successful career as a fire safety assessor / annual certifier of fire protection systems, and a fire systems designer of fire detection and warning systems. The course covers:

- Reviewing fire systems plans, specifications and documents to determine the required level of performance
- Undertaking building inspections to identify the level of compliance and performance of fire systems
- Reporting on the findings of fire safety inspections
- Creating detailed designs and specifications for fire detection and warning systems including smoke detection and alarm systems, zone and air pressurisation systems, smoke and heat vents, smoke exhaust systems, occupant warning and communication systems
- Producing 2D drawings of fire systems
- Providing design documentation to support installation and commissioning processes

What if I already have experience?

- This course can be completed using a Recognition of Prior Learning (RPL) pathway.
- Further details on the RPL pathway for this course can be found by visiting www.fia.edu.au/courses.

How long does it take?

- The training course is self-paced and typically takes 18-24 months to complete.
- Participants are required to complete the course within 24 months of enrolling.

How is the course delivered?

- The course is delivered via a combination of on-line learning and workshops.
- The workshops will be delivered through a combination of online and in-person sessions.
- Participants are supported throughout the learning process by our industry experts.

How does the course link to Licensing or Accreditation requirements?

- This course meets the FPAS application requirements for Fire Safety Assessment for 23 of the 36 fire safety measures; and
- The FPAS application requirements for Fire Systems Design for Fire Detection and Alarm Systems (Level 1, 2 and 3).

Need help with licensing and accreditation requirements

- Visit www.fia.edu.au/advice for information on state and territory requirements or to obtain a detailed training plan that will demystify licensing and accreditation requirements and identify your training needs.

How do I enrol?

Further information on course fees and enrolment details can be found at www.fia.edu.au/courses

Course outcomes

On successful completion of this course, participants will be awarded the qualification ***CPC50520 Diploma of Fire Systems Design***

The qualification includes the following units of competency

Unit Code	Description
CPCCWHS2001	Apply WHS requirements, policies and procedures in the construction industry
CPCSFS5001	Define scope and hazard level of fire systems design projects
CPCSFS5002	Research and interpret detailed fire systems design project requirements
CPCSFS5005	Research and evaluate fire system technologies and components
BSBAUD513	Report on a quality audit
CPCCBC4012	Read and interpret plans and specifications
CPCSFS5014	Conduct annual fire systems certification inspections
CPCSFS5015	Assess documentation for annual fire systems certification inspections
CPCPCM4013	Produce 2D architectural drawings using design software
CPCSFS5003	Develop plans and methodology for fire systems design projects
CPCSFS5008	Create detailed designs for fire detection and warning systems
CPCSFS5011	Provide design documentation and review and support fire system installation processes
CPCSFS5013	Support commissioning processes and finalise fire systems design projects