

DESIGNING WATER BASED SYSTEMS 'ADD ON' COURSE FOR ANNUAL CERTIFIERS

The course is an 'add on' course for participants who have enrolled in, or have completed, a Diploma of Fire Systems Design – Annual Certifier Stream, and who are also experienced in the design of water-based fire suppression systems.

The course recognises and validates your existing skills and knowledge in fire systems design of water based systems, whilst offering an opportunity to learn new skills.

Are there any special requirements needed to take this course?

- Participants must have completed or enrolled in a Diploma of Fire Systems Design course.
- Participants must be experienced designers of water-based systems, and have completed designs and documentation of fire sprinkler systems, fire hydrant systems and fire hose reel systems.
- Participants require access to a personal computer or tablet to enable use of the on-line learning system.

Am I eligible for RPL?

- The first step of the RPL process after you enrol is to assess your suitability for RPL. This is an important step as it ensures that you are enrolled in the most appropriate pathway to complete the qualification.
- Assessing your eligibility to complete the course using an RPL pathway involves:
 - o a review of your work history and experience
 - o consideration of any formal training courses and qualifications previously completed; and
 - o a review of your ability to submit a portfolio of evidence of work projects aligned with the course requirements
- If your assessor determines that you are not able to meet the RPL requirements, you will be offered the opportunity to transfer your enrolment to a training course pathway.

What is Recognition of Prior Learning (RPL)

- RPL is an assessment process that assesses an individual's formal, non-formal and informal learning, combined with their experience to determine the extent to which the individual can demonstrate achievement of the required level of competency.
- RPL is ideal for experienced fire systems designers who have acquired skills and knowledge working in the fire industry and through the completion of formal training and informal learning activities.
- RPL for this course requires the submission of current and valid evidence of completing fire systems design and documentation across a range of building types and environments.
- Candidates are required to submit a portfolio of evidence as well as completing knowledge assessments, assignments and undertake course work for parts of the course.

Other Evidence Requirements

In addition to the portfolio of evidence, you will be required to complete a range of assessment tasks that include:

- short answer questions to verify your knowledge
- workplace based projects and assignments
- producing 2-D architectural drawing and specifications of a plumbing and services layout for a single building using a computer-aided design (CAD) architectural program

Portfolio of Evidence Requirements

To complete the RPL pathway for this course, you will need to provide drawings and documentation for the design of fire sprinkler systems and fire hydrant and hose reel systems for a range of building types and classifications, including:

- commercial building
- factory
- residential nursing home
- medium rise building
- high-rise building

For each project that you submit, you will be required to provide the following evidence:

- a project plan and methodology for the design tasks
- detailed designs for a fire sprinkler system
- detailed designs for a fire hydrant and fire hose reel system
- detailed designs for water supplies for fire systems
- pipe fabrication documentation for fire sprinkler system projects
- documentation and provision of ongoing support for the installation of fire systems
- final fire system drawings, specifications and commissioning support documentation

If you have not completed designs for one or more of the above building types, or are unable to provide the specific evidence listed above for a particular project, you may still be eligible for RPL (see next section).

Can I enrol in RPL if I don't have all the above evidence?

- Your Portfolio of Evidence does not have to be based on work that you have completed prior to enrolling in the course.
- If you meet some of the above requirements, but are short in some areas, it is possible to enhance your portfolio with work examples that you undertake after you enrol.
- It is not unusual for an RPL candidate to have experience, but not be able to provide the evidence required by the qualification. If you don't have the necessary evidence, you can use a current work task to create the evidence in a format that meets the requirements of the course.
- Additionally, you can undertake certain individual units via a training course pathway as part of the RPL enrolment. For example, if you don't have CAD skills and haven't produced 2D CAD drawings of a water-based systems design, you can complete this part of the course via a training pathway, without it affecting your RPL application.
- This approach makes RPL easier to achieve for some people. It relies on you using your existing skills and knowledge to prepare evidence that aligns with the expectations of the units of competency.

What does the course cover?

The course validates your skills and knowledge as a fire systems designer of water based systems. The assessments cover:

- Determining the requirements for fire systems in accordance with relevant legislation, codes and standards
- Creating detailed designs and specifications for fire sprinkler systems
- Creating detailed designs and specifications for fire hydrant and hose reel systems
- Creating detailed designs and specifications for fire systems water supplies
- Assessing issues relating to on-site installation and the production of specifications and supporting documentation for fabrication of pipework.
- Producing 2D drawings of a plumbing or services layout for a basic building
- Providing design documentation to support installation and commissioning processes

How long does it take?

- The RPL pathway typically takes 6-12 months to complete.
- Participants are required to complete the course within 24 months of enrolling.

How is the course delivered?

- The RPL Pathway requires submission of current and valid evidence of completing fire systems design work across a range of building types and environments.
- The RPL Pathway is delivered via a distanced-based delivery model using an online learning and assessment system.
- The RPL pathway for this course also requires you to complete knowledge assessments and assignments and undertake course work to complete parts of the course.
- Participants are supported throughout the RPL and learning process by our industry experts.

Additional training opportunities

- Participants can combine this course with the ***Designing Detection Systems 'Add On' Course for Water Based Systems Designers*** course to meet the accreditation requirements for Fire Systems Design for Fire Detection and Alarm Systems (Level 1, 2 and 3).
- Please contact our support team to discuss combining courses to ensure you benefit from the best combination of courses to meet your specific needs.

How does the course link to Licensing or Accreditation requirements?

- When completed in addition to a Diploma of Fire Systems Design – Annual Certifier Stream, the course will allow a practitioner to meet the FPAS application requirements for Fire Systems Design for:
 - o Fire Sprinkler Systems (Level 1, 2, 3 and 4)
 - o Fire Hydrant and Fire Hose Reel 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 a ***Statement of Attainment for:***

Unit Code	Description
CPCPCM4013	Produce 2D architectural drawings using design software
CPCSFS5003	Develop plans and methodology for fire systems design projects
CPCSFS5006	Create detailed designs for fire sprinkler systems
CPCSFS5007	Create detailed designs for hydrant and hose reel systems
CPCSFS5009	Create detailed designs for fire systems' water supplies
CPCSFS5010	Provide documentation and support for fabrication of fire sprinkler systems
CPCSFS5011	Provide design documentation and review and support fire system installation processes
CPCSFS5013	Support commissioning processes and finalise fire systems design projects