



**IRRIGATION
AUSTRALIA**

IRRIGATION
TRAINING
AUSTRALIA
IAL
RTO: 91313

TRAINING

A Better Future Starts Here

Broaden and expand your career opportunities in an essential growing irrigation industry.



Irrigation Australia

Irrigation Australia is the peak national organisation representing the entire irrigation industry. We are also a Registered Training Organisation RTO 91313 providing nationally accredited industry qualifications and certifications for future irrigation professionals that wish to join this ever-growing industry.

Why Study With Irrigation Australia?

- We provide a unique blended learning experience, with courses running face-to-face and virtual classroom.



- Our courses focus on providing a hands on, practical learning experience, so you will learn by DOING.



- Our trainers are certified industry experts with years of experience in their respective fields, so you will be learning from the best.



- You will become a Certified professional in an essential industry that quickly expands. Qualifications and certifications provide a pathway to employment in this essential industry.



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Our vision is to lead the irrigation industry to the future by providing, regulating and facilitating education programs that improve industry standards and provide practical solutions for water and irrigation issues.”



Irrigation Australia's Training Comes to You

Face-to-face programs running year round all over Australia



Virtual Classroom

Meaning you can attend the classroom and collaborate with your trainer and colleagues from anywhere.

Our Centre of Irrigation Excellence Sponsors



Training Programs

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AHC32422 Certificate III in Irrigation Technology

Overview

AHC3244 Certificate III in Irrigation Technology is a nationally recognised trade level qualification, tailored to deliver a multi-platform learning experience, focusing on the key practical irrigation aspects.

This qualification is considered a starting point or gateway, into the irrigation industry. Upon completion, you will receive a trade level Certificate to operate as an "Irrigation Technician". This course includes essential information you need to learn to operate and maintain irrigation systems in a wide range of professional environments.

Who Is This Course For?

AHC32422 Certificate III in Irrigation is designed for candidates with limited experience in the field of irrigation, who are looking to kick-start a career in a profession, booming with growth and job opportunities.

Learning Outcomes

On completion candidates will have;

- Skills and knowledge in irrigation design and installation.
- Product knowledge, including the latest irrigation technology.
- Knowledge of service and consultation.
- Skills to operate and maintain irrigation systems.
- Skills working in Agricultural, Commercial and Industrial irrigation.
- A Nationally Accredited Qualification.



Career Pathway

Upon completion of this great course, graduates can progress to AHC41119 Certificate IV in Irrigation Management. Graduates can then also apply to join other certification programs moving forward. Learn more about Irrigation Australia's Certification programs by visiting our website.

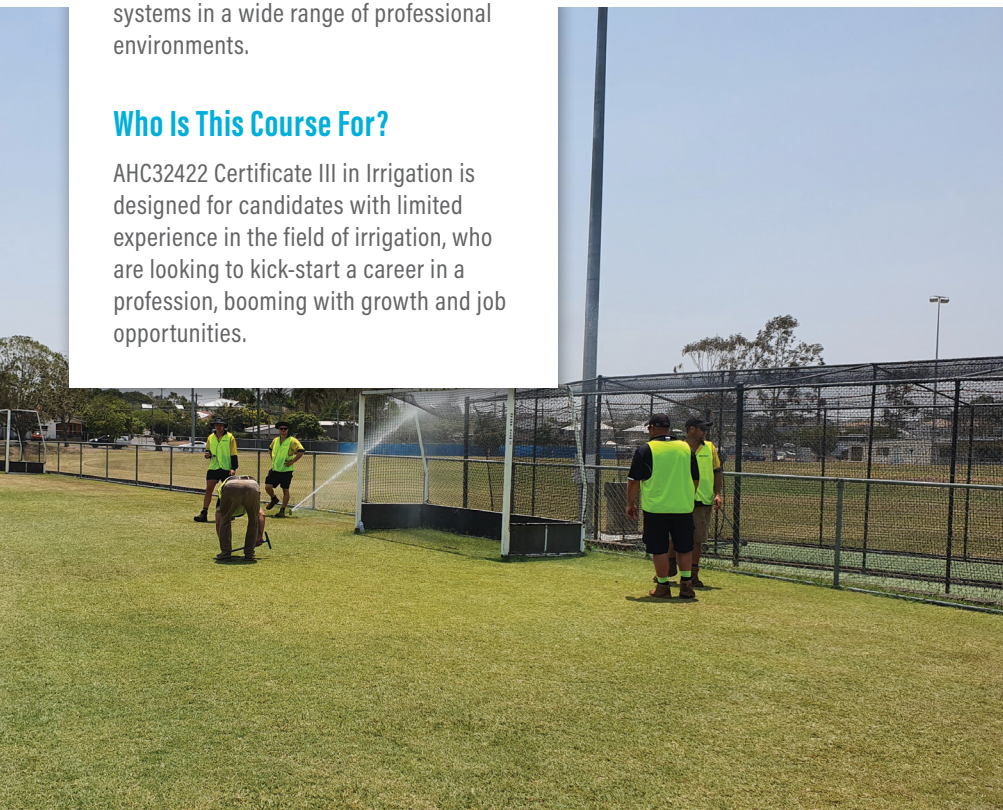
www.irrigationaustralia.com.au

Government Funding (In Some States)

Eligible students can apply for government funding to study the nationally recognised trade level qualification AHC32422 Certificate III in Irrigation Technology.

Eligibility Requirements:

Eligibility requirements vary in each state. Contact the Training Team at Irrigation Australia for more information.





Units of Competency

Candidates must undertake and complete a series of course competencies.

Nine Core Competencies

1. **AHCWHS301** Contribute to work health and safety processes
2. **AHCIRG337** Measure irrigation delivery system performance
3. **AHCIRG338** Troubleshoot irrigation systems
4. **AHCIRG339** Monitor soils under irrigation
5. **AHCIRG340** Install irrigation pumps
6. **AHCIRG342** Interpret irrigation plans and drawings
7. **AHCIRG345** Install pressurised irrigation systems
8. **AHCINF304** Install and terminate extra low voltage wiring systems
9. **AHCWRK309** Apply environmentally sustainable work practices

Thirteen Elective Competencies

10. **AHCIRG328** Operate irrigation controller and sensor technology
11. **AHCIRG341** Operate and maintain irrigation pumping systems
12. **AHCIRG344** Implement an irrigation schedule
13. **AHCIRG346** Operate pressurised irrigation systems
14. **AHCIRG347** Maintain pressurised irrigation systems
15. **AHCIRG348** Operate and maintain moving irrigation system
16. **AHCIRG349** Recommend irrigation products and services
17. **AHCWRK305** Coordinate worksite activities
18. **CPCPIG2021** Design domestic urban irrigation systems
19. **CPCPCM2043** Carry out WHS requirements
20. **CPCPWT3027** Connect irrigation systems from drinking water supply
21. **PMBWELD301E** Join polyethylene plastic pipelines using butt welding
22. **PMBWELD302E** Join polyethylene plastic pipelines using electrofusion welding

AHC41119 Certificate IV in Irrigation Management

Overview

AHC41119 Certificate IV in Irrigation Management is a nationally recognised course, tailored to deliver a multi-platform learning experience, reflecting the technical, supervisory and operational skills as an irrigation specialist.

This qualification reflects the technical and supervisory skills and knowledge required to operate as supervisors and specialists within the irrigation industry. It applies to irrigation installation site managers and managers of irrigation systems in the residential, commercial, horticulture and agriculture industries.

Who Is This Course For?

AHC4119 Certificate IV in Irrigation is designed for candidates with experience in the field of irrigation, who are looking at progressing their career to supervision and/or management of irrigation professionals.



Learning Outcomes

On completion candidates will have;

- Knowledge in all forms of irrigation systems.
- An understanding of irrigation products and the latest technology.
- Skills in servicing and consultation.
- Skills required to provide professional insight and leadership.
- Skills working with irrigation drainage system, pumping system, design and project costing.
- A Nationally Accredited Qualification.

Career Pathway

Upon completion of this great course, candidates will gain the skills to supervise and manage irrigation professionals. Candidates can then also apply to join our Irrigation Operator and Manager Certification Programs. Learn more about Irrigation Australia's Certification programs by visiting our website.

Units of Competency

Candidates must undertake and complete a series of course competencies.

Eight Core Competencies

1. **AHCWHS401** Maintain work health and safety processes
2. **AHCIRG435** Determine hydraulic parameters for an irrigation system
3. **AHCIRG436** Implement an irrigation-related environmental protection program
4. **AHCIRG437** Schedule irrigations
5. **AHCIRG438** Select and manage pumping systems for irrigation
6. **AHCIRG439** Interpret and apply irrigation designs
7. **AHCIRG442** Supervise irrigation system installation
8. **AHCIRG443** Supervise irrigation system maintenance

Four Elective Competencies

9. **AHCIRG444** Manage irrigation systems
10. **AHCIRG446** Provide irrigation sales and service
11. **AHCSOL401** Sample soils and interpret results
12. **AHCBUS407** Cost a project

Government Funding (In Some States)

Eligible students can apply for government funding to study the nationally recognised qualification AHC4119 Certificate IV in Irrigation Management.

Eligibility Requirements:

Eligibility requirements vary in each state. Contact the Training Team at Irrigation Australia for more information.

AHCSS00100 Irrigation Systems Efficiency

Overview

This course is designed to provide candidates the knowledge and skills to consider all aspects needed to achieve high irrigation efficiencies. Candidates will learn about designing, operating and maintaining irrigation efficient system, in a hands-on, practical environment.



Career Pathway

Upon completion of this important course, graduates will be able to use their knowledge and skills to increase water efficiency in irrigation systems and can then progress into other higher level courses.

Units of Competency

Candidates must undertake and complete a series of course competencies.

1. **AHCIRG337** Measure irrigation delivery system performance
2. **AHCIRG338** Troubleshoot irrigation system
3. **AHCIRG346** Operate pressurised irrigation systems

Who Is This Course For?

This course is designed for those seeking to be involved in irrigation installation or irrigation management.

Learning Outcomes

On completion of this course graduates will gain the following:

- Skills to gather water-use and irrigation performance.
- Experience with monitoring & testing sprinkler and irrigation systems.
- An understanding of irrigation scheduling, water requirements and system development.
- Knowledge of system maintenance strategies
- Skills to assess soil texture and root zone depths.
- Knowledge to conduct water pressure and flow rate tests.
- Knowledge of irrigation system troubleshooting.



Irrigation Pumps & Systems

Overview

This course is designed to provide candidates with the knowledge and skills to operate and maintain irrigation pumping systems and install, test and maintain pumping systems to a national standard.

The course requires candidates to analyse information and exercise judgement to complete a range of activities that will demonstrate their skill and knowledge with irrigation pumping systems.

Who Is This Course For?

This course is designed for those looking to be involved in irrigation installation, a field of work that is always in high-demand.

Outcomes

On completion of this course graduates will gain the following:

- Skills to determine system size and requirements.
- Knowledge of different types of irrigation systems, including hydraulics.
- An understanding of pump curves, selection, and installation.
- Skills to maintain and test irrigation pumps.
- Understanding of control and protection systems.
- Skills to install and commission irrigation pumps.



Career Pathway

Upon completion of this relevant course, graduates will gain the knowledge to install and service irrigation pumps and systems and can then progress into other highly acclaimed courses.

Unit of Competency

Candidates must undertake and complete a series of course competencies.

1. **AHCIRG438** Select and manage pumping systems for irrigation

Upon completion of this course, graduates will be issued with a Nationally Recognised Statement of Attainment.



Centre Pivot & Lateral Move

Overview

Our Centre Pivot and Lateral Move Course offers greater control and flexibility in irrigation management. This extensive course is designed to provide students with the latest techniques and innovations of centre pivot and lateral move irrigation systems in a field of work that is flourishing with growth, job opportunities and government support.

Who Is This Course For?

This course is designed for candidates looking to emerge in one of the latest, most technologically advancing professions within the irrigation industry.

Learning Outcomes

On completion of this course graduates will gain the following:

- Knowledge to identify key components of Centre Pivot and Lateral Move Systems. (CPLM)
- Understanding of financial issues with purchasing and operating CPLM systems.
- Skills in planning installation of a CPLM system.
- Knowledge in measuring CPLM system performance and improvements.
- Understanding of how to use and maintain CPLM systems.
- Hands on experience in field activities.



Career Pathway

On completion of this useful course, graduates will be qualified to install, operate, maintain and troubleshoot Centre Pivot and Lateral Move systems.

- [AHCIRG348 Operate and maintain moving irrigation system](#)





AHCSS00102 Meter Installation & Validation

Overview

Our Meter Installation and Validation course is nationally accredited and offers graduates the skills and knowledge to become a Certified Meter Installer & Validator.

This important course provides a hands-on learning experience and in-field assessment on candidate's skill and knowledge in accordance with the Australian standard, when installing water meters in rural environments.

Who Is This Course For?

This course is designed for installing and validating non urban water meters water meters. On successful completion of this course, candidates will gain a nationally recognised Statement of Attainment.

Learning Outcomes

On completion of this course graduates will gain the following:

- Knowledge of Workplace Health & Safety.
- Skills to identify and apply procedures according to risks and impacts on environment.
- A better understanding of site preparation, construction work and site restoration.
- Experience with hands-on field assessment of meter installations and working near a utility service during construction.
- A Nationally Accredited Qualification.



Units of Competency

By undertaking activities and assignments, students will obtain a Statement of Attainment for the following 6 units:

1. **AHCWHS301** Contribute to work health and safety processes
2. **AHCWRK309** Apply environmentally sustainable work practices
3. **NWPIWS004** Install meters for rural water supplies
4. **NWPIWS006** Maintain meters for rural water supplies
5. **NWPNET019** Prepare and restore worksite
6. **NWPNET029** Locate, identify and protect utilities



Certified Meter Installer & Validator



Why become Certified?

It is a requirement in many State/Territories that non-urban water meters must be installed and/or validated by a Certified Meter Installer and Validator (CMI/DQP)

For more information on the current Metering Policy regulations and more resources for each state and territory, please visit our website

www.coie.com.au

How to become certified

After successful completion of the meter installation and validation course and satisfying all the competency requirements, you will become a Certified Meter Installer and Validator. More information can be found on our website.

www.coie.com.au

For any certification enquiries please email training@irrigation.org.au

Career Pathway

Upon completion of this course, graduates may consider extending their professional development to other certification programs or the Certificate III in Irrigation Technology or Certificate IV in Irrigation Management. Visit our website to learn more. www.coie.com.au

Who is a Certified Meter Installer & Validator?

An industry professional who can install and validate rural water meters according to the Australian Standards and as laid out in the National Framework for Non-Urban Water Metering Policy Paper.



Introduction to Irrigation | Agriculture

Overview

Between 50-70% of the water consumption in Australia is used in agriculture, and with the increasing scarcity of water, the industry has to find way to improve water efficiency. This course is designed to provide graduates with the knowledge to contribute to use water in an efficient manner.

Introduction to Irrigation - Agriculture involves face to face education about how irrigation is the backbone of the agricultural industry and everything that it entails.

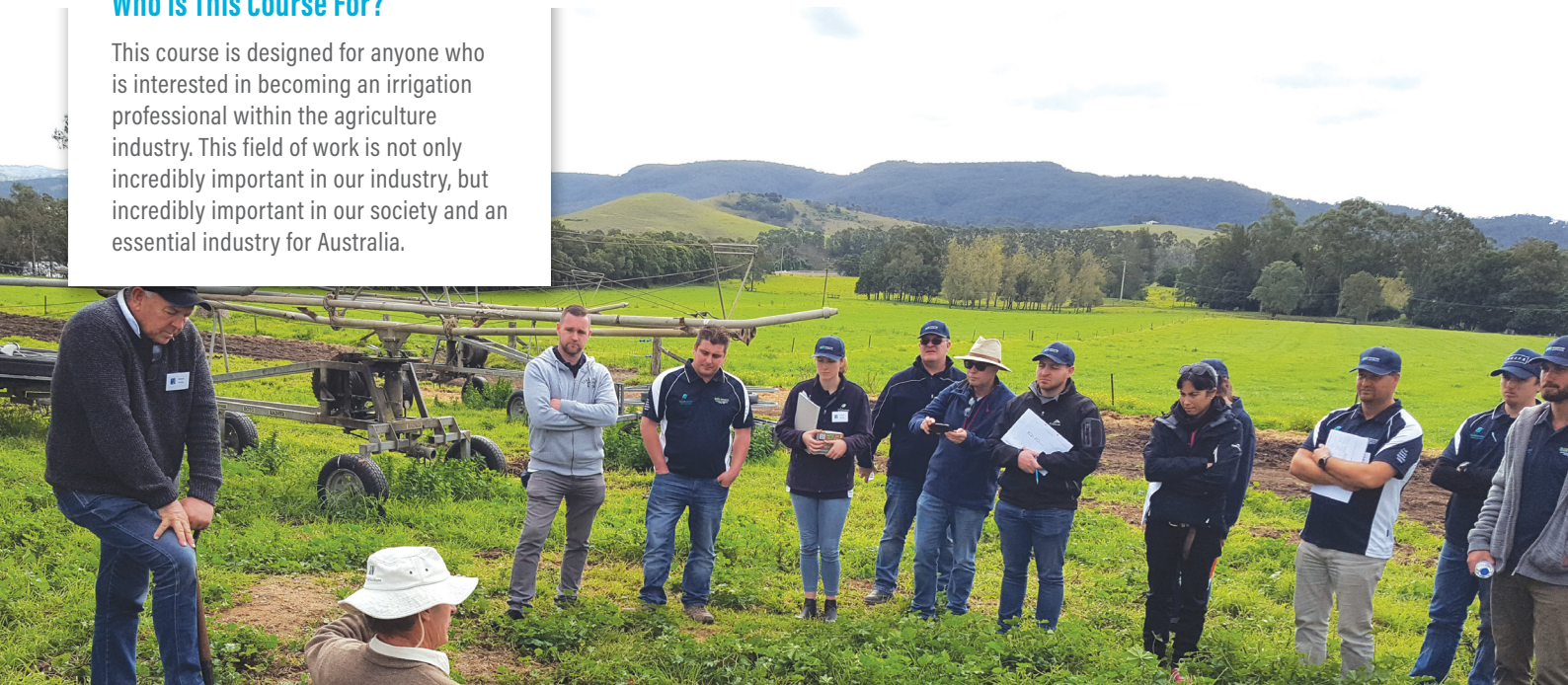
Who Is This Course For?

This course is designed for anyone who is interested in becoming an irrigation professional within the agriculture industry. This field of work is not only incredibly important in our industry, but incredibly important in our society and an essential industry for Australia.

Learning Outcomes

On completion of this course graduates will gain the following:

- An understanding of the agriculture industry.
- Knowledge of irrigation system which encompasses the following:
 - Key elements of irrigation practice, management, allocation and administration.
 - Knowledge of land and water planning on irrigation farms.
 - An understanding of irrigation efficiency techniques and standards.





Introduction to Irrigation | Urban

Overview

This course has been developed to provide candidates with the understanding of principles of irrigation for parks, sports fields, golf courses, developments and homes.

Certified irrigation specialists will guide candidates towards a better understanding of Urban Irrigation principles and allow them to grow and develop as professionals within the industry.

Who Is This Course For?

This short, to the point course is for irrigation newcomers who want to gain knowledge and understanding of

irrigation in an urban environment and take one step closer to becoming a more versed irrigation professional.

Learning Outcomes

On completion of this course graduates will gain the following:

- Skills to identify major irrigation industries and varying water use factors.
- Knowledge of the relationship between soil, plants & water.
- Knowledge of different irrigation components, terms & units.
- The knowledge to apply irrigation products & components to provide better irrigation efficiency.

- Skills in urban irrigation management and maintenance.
- An understanding of existing government agencies in the field.





Commercial Irrigation Design

Overview

A mid-level parkland / football field sized irrigation hydraulics and design program. Suited to urban domestic irrigation system designers or technicians looking to take the next step in irrigation system design processes. Also suited to irrigation project supervisors responsible for checking and/or selecting the best irrigation design for their field.

You should have a base level of experience in Irrigation system components and principles.

Learning Outcomes

On completion of this course graduates will gain the following:

- Skills to utilise a simplified paper-based irrigation plan.
- Knowledge of advanced irrigation system design and principles.
- An understanding of water supply volume and multi-valve operational calculations.
- Skills to select large irrigation components and the knowledge to analyse and size piping.
- Skills to measure water supply in commercial environments.
- The knowledge to develop material lists and costing.

Urban Irrigation Design

Overview

An entry-level domestic irrigation design program suited to participants that work in irrigation and landscape sales. Also suits installers and irrigation system operators and/or managers interested in the basics of irrigation system designs.

Participants of this program will be taken through the steps required for a residential irrigation system design, including a bill of materials.

There are no entry requirements for this course.

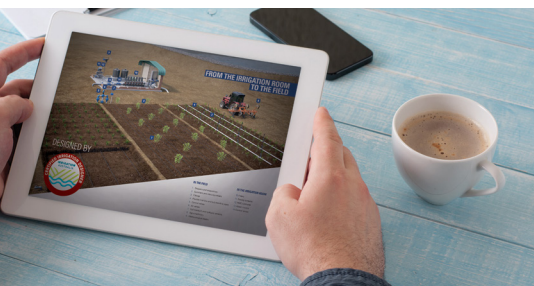
Learning Outcomes

On completion of this course graduates will gain the following:

- Skills to utilise a simplified paper-based irrigation plan.
- Knowledge of irrigation system design principles and tips.
- An understanding of water supply measurements and pipeline type, size and layouts.
- Knowledge to select appropriate irrigation components.
- The knowledge to measure water supply
- The knowledge to develop material lists and costing.

Career Pathway

Upon completion of this great course, graduates will gain the skills to design irrigation systems for residential properties.



IRRICAD Design

Career Pathway

Upon completion of this important course, graduates will gain the knowledge to design irrigation systems for commercial properties and environments. Learn more about Irrigation Australia Certification programs by visiting our website.



Overview

This course will equip students with a basic knowledge to plan and produce an irrigation design from base climatic and crop information, utilising IRRICAD hydraulic software. Students will be led through the layout and hydraulic design processes. IRRICAD operational commands and database product management will also be addressed to ensure the optimal design. Plan finalisation and professional finishes form the final part of this industry-relevant course. Drip Irrigation and Sprinkler Irrigation designs will be central to the training program.

You must have a minimum of 2 years experience in irrigation system design/ hydraulics. Students will be required to use the IRRICAD Software. This can be sourced through your own IRRICAD Dongle or by using a temporary IRRICAD Licence through Irrigation Australia (additional fees apply).

Learning Outcomes

On completion of this course, graduates will have the following skills:

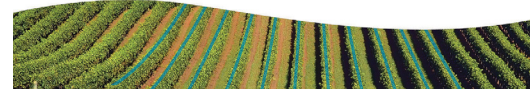
- Skills to work with A1 paper based, plan creation.
- Skills to plan and design irrigation systems for any environment, using IRRICAD Software.
- Knowledge of advanced irrigation system design and principles.



- An understanding of water supply volume and multi-valve operational calculations.
- Knowledge to select large irrigation components and the knowledge to analyse and size piping.
- Skills to measure water supply in urban & commercial environments.
- The knowledge to develop material lists and costing.

Career Pathway

Upon completion of this course, graduates will gain the knowledge to design irrigation systems for many environments, using IRRICAD software.





Irrigation Installer

Overview

Learn the skills and knowledge required to become a Certified Irrigation Installer - CII. An in-depth irrigation training program which is assessed against partial completion of our AHC32422 Certificate III in Irrigation Technology (Trade Level) qualification. The program engages subject matter experts for specialised topics such as hydraulics, troubleshooting and basic irrigation design, to name a few.

This course will enable participants to be certified as a CII - Certified Irrigation Installer.

Learning Outcomes

On completion of this course, graduates will have the following skills:

- Skills and knowledge in irrigation design, installation and troubleshooting
- Product knowledge and understanding of latest technology
- Skills to provide a more professional service to clients relying on the irrigation industry for advice, service and products
- Progress towards Certified Irrigation Professional
- Progress towards a nationally recognised qualification

Unit of Competency

Candidates must undertake and complete:

1. **AHCINF304** Install and terminate extra low voltage wiring systems
2. **AHCIRG337** Measure irrigation delivery system performance
3. **AHCIRG338** Troubleshoot irrigation systems
4. **AHCIRG339** Monitor soils under irrigation
5. **AHCIRG342** Interpret irrigation plans and drawings
6. **AHCIRG345** Install pressurised irrigation systems
7. **AHCWRK309** Apply environmentally sustainable work practices

How to become certified

After successful completion of the course and satisfying all the competency requirements, you will become a Certified Irrigation Installer. More information can be found on our website.

www.coie.com.au

For any certification enquiry please email training@irrigation.org.au





Certified Irrigation Installer



Why become Certified?

Certification grants you a point of difference in the market. A Certified Irrigation Installer is highly regarded by customers to provide a service that meets or exceeds the average industry standards. For more information on our certification programs, please visit our website www.irrigationaustralia.com.au

Who is a Certified Irrigation Installer?

An industry professional who can install, troubleshoot, upgrade or repair irrigation systems. Certified Irrigation Installers use best practice when installing a system, and can recognise and minimise the environmental impacts of irrigation.

What is Certification?

Certification is a national program of industry recognition. Certification is a license earned by a person to certify that he or she is qualified to perform a job. Certification indicates that the individual has a minimum set of knowledge, skills, or abilities in the view of the certifying body to perform their job to the satisfaction of water managers and customers.

Why Become Certified?

The Certification grants you a point of difference in the marketplace. Irrigation Australia's Certification Program is highly regarded by customers and local governments to provide a service that meets or exceeds the average industry standards. Many state & local governments around Australia require that irrigation projects are designed and completed by Certified Irrigation Designers & Professionals.

By becoming Certified you gain access to the following unique materials:

- Certification Logo to use on your print and digital materials
- Unique ID number for your chosen discipline
- Tool Kit providing a variety of marketing materials
- Listing in the digital version of the A4 Irrigation Directory under specific discipline
- Full contact listing under specific discipline on the Irrigation Australia website search engine



SCAN QR CODE TO WATCH OUR CERTIFIED IRRIGATION DESIGNER VIDEO

Irrigation Australia's Certifications

- Certified Irrigation Installer
- Certified Irrigation Operator
- Certified Irrigation Contractor
- Certified Irrigation Retailer
- Certified Irrigation Manager
- Certified Meter Installer and Validator
- Certified Irrigation Agronomist
- Certified Irrigation Designer
- Certified Storage Meter Installer & Validator
- Certified Irrigation Auditor
- Certified Poly Welder - Butt Welding
- Certified Poly Welder - Electrofusion



Certification Program

Certified Irrigation Designer

If you're currently designing irrigation systems that are efficient and sustainable, then you may wish to become a Certified Irrigation Designer (CID). The certification grants you a point of difference in the market and a Certified Irrigation Designer is highly regarded by customers to provide a service that meets or exceeds the average industry standards.

Certified Meter Installer & Validator

If you are currently installing and certifying irrigation water meters for agriculture or commercial fields you may be eligible to become a Certified Irrigation Meter Validator.

Certificate Irrigation Agronomist

If you're a practising agronomist and have particular skills in irrigation then you may be eligible to become a Certified Irrigation Agronomist. You'll most likely have a qualification in another discipline such as agriculture, horticulture or agronomy. You currently provide advice to end-users on system types, purchase and use. You may also troubleshoot, evaluate audit irrigation systems.

Certificate Irrigation Contractor

If you're currently working as an irrigation contractor managing the installation process of irrigation systems post design,

then you may be eligible to become a Certified Irrigation Contractor. As a project contractor you'll have responsibility for how irrigation systems are installed and maintained, while seeking to understand client needs. You will use best practise in the installation and use of irrigation systems, and you'll understand the regulations in regards to water access and use. You can recognise and minimise the environmental impacts of irrigation.

Certificate Irrigation Installer

If you're currently installing, troubleshooting, upgrading or repairing irrigation systems, then you may be eligible to become a Certified Irrigation Installer. You may work on your own or you may be responsible for a small team. You will currently use best practice when installing a system, and can recognise and minimise the environmental impacts of irrigation.

Certificate Irrigation Manager

If you are currently a farmer, farm manager, parks superintendent or turf manager responsible for applying water in irrigation systems you may be eligible to become a Certified Irrigation Manager. You will currently be implementing best practice in irrigation and water use and can recognise and minimise the environmental impacts of irrigation.

Certificate Irrigation Operator

If you're currently working on an irrigation system and you're responsible for the efficient and sustainable use of irrigation water, then you may be eligible to become a Certified Irrigation Operator.

Certified Irrigation Retailer

To become a successful Certified Irrigation Retailer you will be expected to be actively working in an irrigation retail business, using your substantial knowledge of irrigation hydraulics, pumps and components to understand and meet the needs of your customers.

Certified Irrigation Systems Auditor

If you are a practising irrigation professional and have particular interest and exposure to irrigation system performance, you may be eligible to become a Certified Irrigation Auditor under a collaboration with Irrigation Australia and Dairy Australia.

Certified Poly Welder

A Certified Poly Welder – CPW is an industry professional who can weld polyethylene pipelines safely, efficiently & effectively across a range of industry applications including plumbing, civil construction, oil & gas, irrigation, and engineering. This includes using electrofusion and/or butt-welding methods.

Other Irrigation Workshops & Online Training:

- Basics in Wiring & Electrical Troubleshooting
- Rainwater Harvesting
- Basics in Drip Irrigation

Visit our website to learn more www.coie.com.au



Our Centre of Irrigation Excellence Sponsors



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