

AIRAH accredited

Professional Diploma in Building Services – HVAC&R



Registrations
open now for
April 2024
intake



The HVAC&R industry's dedicated online program:

- ✓ For individuals committed to upgrading their engineering technical skills
- ✓ For businesses committed to developing their workforce



airah.org.au/pdbs

The AIRAH-accredited Professional Diploma in Building Services – HVAC&R won the Outstanding Industry Education/Training Award at the ARBS 2020 Industry Awards.

Professional Diploma in Building Services – HVAC&R

The definitive training program for the HVAC&R industry.

Providing essential knowledge and skills to engineering graduates employed in consulting or contracting firms and/or practising trades workers.

Increasing exposure to the HVAC&R industry through comprehensive and practical engineering training for the built environment.

April 2024 intake and registration

**The program runs from:
April 1, 2024 – December 31, 2024**
Intake closes March 15, 2024,
or when spaces are filled.

Delivery

Online

- ✓ Course work delivered online
- ✓ Four key areas
- ✓ Over 100 hours of course content

Throughout the course, students receive ongoing support via the online question board, assessment schedules and peer-to-peer discussion.

Topics

30
hours

1 Fundamentals:

- ✓ Introduction to practice
- ✓ Engineering fundamentals
- ✓ Introduction to HVAC&R – system types and applicability
- ✓ Introduction to system components
- ✓ Psychrometry
- ✓ Load and energy estimation
- ✓ Comfort conditions
- ✓ Refrigeration cycles and refrigerants

10
hours

2 Equipment and Components:

- ✓ Chillers
- ✓ Pumps
- ✓ Fans
- ✓ Heat rejection
- ✓ Hot water heaters
- ✓ Heat exchange equipment
- ✓ Packaged systems

45
hours

3 Systems:

- ✓ Refrigeration systems
- ✓ Air systems
- ✓ Water systems
- ✓ Electrical systems
- ✓ System control
- ✓ Thermal storage and mass
- ✓ Passive, mixed-mode and hybrid systems
- ✓ System design and selection

15
hours

4 Practice and Performance:

- ✓ Industry practice
- ✓ Design and construction process
- ✓ Regulation and compliance
- ✓ Sustainability
- ✓ Bidding and tendering
- ✓ Estimating
- ✓ Programming
- ✓ Design
- ✓ Construction
- ✓ Commissioning and building tuning
- ✓ Operations, maintenance and facilities management

Complete this form, then email
or post with payment to:

AIRAH Level 3, 1 Elizabeth St,
Melbourne Vic 3000

Phone: 03 8623 3000

Email: training@airah.org.au

Professional Diploma in Building Services – HVAC&R



Helping you gain a better understanding of HVAC&R design principles.

Registration – April 2024

Registration fee

Register before February 15, 2024

\$5,775 (incl GST) Member

\$6,165 (incl GST) *Non-member

Register after February 16, 2024

\$6,325 (incl GST) Member

\$6,715 (incl GST) *Non-member

*Please note price includes cost of joining
AIRAH as an Affiliate member for one year.

Registration closes March 15, 2024

Fee includes:

- Access to the online education environment
- All online topic resources

Who should enrol?

This program is designed for recent engineering graduates or those with an extensive trades background. You need to be competent in English (written/verbal) and a dues-paying member of AIRAH.

Cancellation and refund policy

Registration may be cancelled up to 15 working days prior to commencement of the program, with participants either transferring to another intake or receiving a refund less a 20 per cent administration fee. In all other cases of cancellation, the extent of any refund will be at the discretion of the AIRAH Chief Executive Officer. A cancellation request must be lodged in writing.

Another participant may be substituted at any time before course commencement if the nominated person is unable to commence the course.

AIRAH reserves the right to cancel or postpone a course. All registered participants affected by such changes will receive a full refund or be offered the opportunity to transfer to the next available intake period.

Note – AIRAH's online professional development training system may need to be temporarily shut down for maintenance during the training program. AIRAH will endeavour to inform all students of any downtime well in advance.

Participant details

Mr/Mrs/Ms	<input type="text"/>	Family name	<input type="text"/>
Given name	<input type="text"/>	Preferred name	<input type="text"/>
Position	<input type="text"/>		
Address	<input type="text"/>		
Suburb	<input type="text"/>	Postcode	<input type="text"/>
Mobile	<input type="text"/>		
Email	<input type="text"/>		

Billing details

Company name	<input type="text"/>		
Accounts/supervisor name	<input type="text"/>		
Address	<input type="text"/>		
Suburb	<input type="text"/>	Postcode	<input type="text"/>
Phone	<input type="text"/>		
Email	<input type="text"/>		

Payment

\$ EFT ☐ Mastercard ☐ Visa ☐ Cheque ☐

Please Note: If paying by EFT, a tax invoice with payment details will be issued.
If paying by cheque, please make your cheque payable to AIRAH.

Once this form has been submitted to and received by AIRAH's education team, we will contact you to process and/or confirm your payment. Please note your enrolment in this program/course is not confirmed until this step has been completed.

Tax invoice: Upon payment, a tax receipt will be sent to you | ABN: 81 004 082 928

Disclaimer: In making this application, I fully understand that it is for enrolment to the Professional Diploma in Building Services – HVAC&R indicated on this application form. I understand that payment is required for this program. I will submit to an assessment and supply further information as determined by AIRAH. I further understand that any false statement or misrepresentation that I may have made in this application may result in the revocation of this application. AIRAH is a self-accrediting nationally recognised peak industry body for HVAC&R. Go to www.airah.org.au for more information.

Participant's signature

Date

Fast-track your engineering knowledge of HVAC&R



✓ 9-month program

✓ Over 100 hours of online course content and assessments

✓ 12 case studies

✓ Recognition

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How the program benefits employers and employees

- Suitable for recent mechanical engineering graduates, or those with significant experience in associated fields of HVAC&R, who are seeking to better understand engineering processes.
- Competency-based assessment, verifying that each student is self-motivated and prepared to work effectively under senior guidance, at a graduate level in the HVAC&R industry.
- Outsourced training opportunity for HVAC&R businesses committed to the development of their graduates.

In addition to the theory content provided across four key training areas, the program takes students on a journey of designing an HVAC system over 12 assignments. Feedback from experienced engineers is provided at every step.

It provides an in-depth look at the overall journey of an HVAC&R mechanical engineer's job. Practical takeaways include: reviewing a site, presenting design options to a client, calculating heat loads (manually, from basic principles), selecting equipment, designing, compliance assessment, budgeting, energy reporting and pulling together a tendering document.

This program requires students to both read the course materials and demonstrate their readiness to operate in real world projects. Students are required to undertake their own research to determine answers to design problems. The use of outside course materials will be required, such as finding suppliers' specification guidelines. Based on industry guidance, successful participants will exhibit initiative, curiosity and creativity in their assignments.

Program snapshot

This program has established itself as the most important education and training tool for HVAC&R industry professionals.



Over 462 students have undertaken the program



Two intakes each year (maximum of 45 registrations per intake)



Program frequently sells out; waiting list placement available

Figures as of October 2023

Completion

Students who successfully complete the Professional Diploma of Building Services – HVAC&R will be issued:

- A letter of completion
- A statement of results
- The AIRAH industry-accredited PDBS-HVAC&R certificate