ABOUT THIS QUALIFICATION

This is a nationally accredited qualification that is called up through Tasmanian legislation to meet the educational requirements of plumbers wanting to attain ‘Certifier’ licensing under the Occupational Licensing Act (2005).

Plumbing licensing is administered by Building Standards and Occupational Licensing (BSOL) with the Department of Justice.

Licensing information: www.justice.tas.gov.au/licensing_and_accreditation

The Certificate IV in Plumbing and Services – Operations Stream, is aimed solely at qualified plumbers who need to extend their operational trade knowledge and satisfy business licensing needs.

So that you choose the delivery model most suited to your circumstances you must first do the following:

• Familiarise yourself with Tasmanian Plumbing Licensing requirements through the CBOS website.
• Read this booklet in detail. Be aware that only brief licensing details are included here.

PLUMBING LICENSING (TAS)

There are three main license levels for Tasmanian plumbers:

1. Practitioner – having completed your Certificate III and apprenticeship, you must apply for a Practitioner license within one calendar month in order to work without supervision. A ‘practitioner’ must be employed and cannot sign for or ‘Certify’ work. NOTE: There is no Practitioner level for gas fitters. Only a Certifier can carry out gas work.

2. Certifier – a plumbing Practitioner who wants to ‘Certify’ work and supervise other practitioners must complete the relevant units from this qualification and apply for the license through BSOL. A Certifier may be employed but may also be self-employed (coupled with a Contractor license)

3. Contractor – A contractor may be a Certifier or indeed may have no trade but in this instance must employ a Certifier in the range of work undertaken

As a minimum, plumbing practitioners who wish to apply for ‘Certifier’ licensing must complete the following:

• 4 x Common Core units
• The unit/s required in each stream that they wish to be licensed in

To confirm the actual units required for the primary Certifier license categories, please refer to page 4 of this booklet.
TRAINING LINKED TO LICENSING

To satisfy Tasmanian licensing requirements, TasTAFE Plumbing team provide training and assessment solutions through 3 specific delivery pathways.

1. SELECTED UNITS FOR LICENSING

You may not wish to be licensed in all streams. As such you do not need to complete the full Certificate IV but are able to choose only those units required for Certifier licensing.

For example:

1. If you only wished to be licensed in Sanitary and Water, you would need to complete the following:
   • 4 x Common Core units
     o 3 x Water units
     o 1 x Sanitary unit

2. If you only wished to be licensed in Gas and Water, you would only need to complete the following:
   • 4 x Common Core units
     o 2 x Gas units
     o 3 x Water units

Remember, the 4 x Common Core units must be done by all students. Once you know what you want to achieve, use this course guide to help you book into the relevant units as per the schedule of dates.

2. ROOF PLUMBING AND GAS FITTING - SPECIALIST LICENSING

If you are a specialist Roof Plumber or Gas Fitter, you are not eligible to complete the full Cert IV Plumbing and Services – Operations Stream as you have not attained competency in the other Cert III plumbing streams. As such your unit selections are restricted as follows:

- Roof Plumbing
  • 4 x Common Core units
    ▪ 1 x Roof unit

- Gas Fitting
  • 4 x Common Core units
    ▪ 2 x Gas units

Having attained competency in these areas you may apply to BSOL for Certifier licensing.

3. FULL CERTIFICATE IV PATHWAY

Wanting to run your own business or assume a senior management role in your current company? If you have completed a 5x stream plumbing apprenticeship (San, Drain, Water, Roof, Gas) and want to hold a Certifier license in all streams, you should consider completion of a full Certificate IV in Plumbing and Services.

You will need to complete 14 Cert IV units to become a Certifier in all streams. By undertaking only one extra unit you will then earn the full Certificate IV.

Plumbers who sign up with TasTAFE to do a FULL Cert IV in Plumbing and Services may receive State Government funding assistance for each unit in the qualification.
UNITS NEEDED FOR STREAM LICENSING

There are specific units required for plumbing license categories and these have been agreed to by all State and Territory Governments.

**National plumbing license units**

The 4 common core units below are mandatory

<table>
<thead>
<tr>
<th>Common Core</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Read and interpret plans and specifications</td>
</tr>
<tr>
<td>• Estimate and cost work</td>
</tr>
<tr>
<td>• Identify hazards and assess OHS risks</td>
</tr>
<tr>
<td>• Carry out work-based risk control processes</td>
</tr>
</tbody>
</table>

Select the units you require below to match the stream you want to be licensed in

<table>
<thead>
<tr>
<th>Sanitary</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Design and size sanitary plumbing systems</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Drainage</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Design and size sanitary drainage systems</td>
</tr>
<tr>
<td>• Design and size treatment plant disposal systems</td>
</tr>
<tr>
<td>• Design and size stormwater drainage systems</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Design and size heated and cold water services and systems</td>
</tr>
<tr>
<td>• Commission and maintain backflow prevention devices</td>
</tr>
<tr>
<td>• Commission and maintain hot and heated water temperature control devices</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Roof</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Design and size roof drainage systems</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Gas</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Design and size consumer gas installations</td>
</tr>
<tr>
<td>• Service Type A gas appliances</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Mech. Services</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Design, size and layout heating and cooling systems</td>
</tr>
<tr>
<td>• Commission air and water systems</td>
</tr>
</tbody>
</table>
COURSE DURATION AND STANDARD PROGRESSION

The Certificate IV is offered in a structured classroom-based delivery mode. This will allow you to plan your progression towards your licensing goals with some degree of certainty.

SELECTED UNITS

If you only need to complete training for selected stream license areas then you simply look for the delivery dates listed in this guide for each course to get an idea of how long this process will take.

PROGRESSION THROUGH FULL CERTIFICATE IV PROGRAMME

For those who wish to sign into a training contract for the full Certificate IV in Plumbing and Services, units are offered on a structured delivery model per Semester. There are 2 Semesters each year and classes begin in February and July respectively.

Depending upon your personal circumstances, you can expect that a full Certificate IV will be achievable over 3-4 Semesters (approx. 18-24 months). This is done in a mix of night class and day release courses staggered throughout the academic year. The flow chart opposite provides an example.

Note: Once you have done your Common Core units you can apply for license categories as you complete each stream subject area.
COURSE FEE ASSISTANCE

Funding assistance options are available based upon which enrolment pathway you take.

SELECTED UNITS

The fees for units selected on an individual basis to meet specific licensing needs are priced on a full fee-for-service commercial rate (contact the TasTAFE Plumbing Team for the latest course costs).

However you are able to apply to the Tasmanian Building and Construction Industry Training Board (TBCITB) for course fee assistance.

This must be done by yourself or by your employer on your behalf PRIOR to course commencement. If approved, you will be reimbursed a percentage of the course cost upon successful completion and presentation of your Statement of Attainment for each unit.

Contact the TBCITB on 03 6223 7804 email@tbcitb.com.au or visit their website for more information www.tbcitb.com.au

FULL CERTIFICATE IV PROGRAM

If you elect to sign up under a training contract with TasTAFE for the provision of a FULL Certificate IV in Plumbing and Services, you may be eligible for State Government assistance for each unit. If so, you will only be required to pay our standard student fee and any text or printing costs. Please see our website for the current price of this programme.

www.tastafe.tas.edu.au

AUSTRALIAN STANDARDS

Many units will require you have your own copy of Australian Standards and/or Codes of Practice

STANDARDS AND CODES

You will be told prior to commencement which Australian Standards and/or Codes of Practice you will require. All plumbers must carry out their daily work in accordance with such documents and as such it is mandatory that you have these where prescribed.

The TasTAFE Plumbing Team does not sell or loan Standards. You must have your own copy.

WHERE TO GET THEM

Once you are enrolled and provided with system login details, you will be entitled to print your own copy of relevant Standards from one of our campus libraries. A nominal printing cost applies.

Details of how access Standards through a TasTAFE library will be provided to you upon enrolment.

Alternatively you may choose to purchase copies of Australian Standards directly from SAI Global or Birchall’s Bookshop.

OTHER ITEMS

Some units will require drawing equipment, calculators and other stationary. You will also require PPE for practical classes. Details provided prior to commencement of each course.
COURSE AND UNIT PRE-REQUISITES

Specific pre-requisites apply to the course itself and some units of competency. A pre-requisite is something that must be done first before you can progress to the next stage.

BASIC PRE-REQUISITES

Entry into this qualification is based upon the following requirements:

- Applicants must be a qualified plumber holding ‘Practitioner’ or existing ‘Certifier’ licensing
- Apprentices who have completed ALL campus-based training may be eligible for entry. However, this is considered on an individual basis and is subject to an interview.

UNIT PRE-REQUISITES

Some units must be completed before progressing past a certain point. These include:

2x Common Core Courses (all 4 units)

- Plans and Cost Estimation Course (2x Common Core units) – this is the first pre-requisite course for all subsequent units in the qualification. The course includes important skills in plan-reading, interpretation and drawing that are used repeatedly throughout the qualification.
- WHS and Risk Assessment Course (2x Common Core units) – this is the second pre-requisite course. Once all 4x Common Core units are complete you are able to move onto the specific stream units that you require
- Restricted Electrical License Course – Prior to commencing the unit ‘Service Type A gas appliances’ you must complete the following units:
  - UEENEEE101A - Apply OHS Regulations, Codes & Practices in the workplace and various units below as
  - UEENEEP013A - Disconnect - reconnect control devices connected to low voltage installation wiring
  - UEENEEP014A - Disconnect - reconnect water heaters connected to low voltage installation wiring
  - UEENEEP015A - Disconnect - reconnect motors connected to low voltage installation wiring

If you have completed an earlier version of REL please contact us to confirm units with current Licensing requirements.
COURSE DATES

TasTAFE undertake to run all courses on the advertised dates wherever possible but reserve the right to make changes where unforeseen circumstances or low enrolments dictate a need for an alternative.

CONTINUING PROFESSIONAL DEVELOPMENT (CPD)

Continuing Professional Development (CPD) is a requirement for all categories of license holders under the Occupational License Act 2005 (Tasmania) and is administered by Consumer, Building and Occupational Services (CBOS)

PURPOSE

CPD is aimed at increasing consumer protection and maintaining public confidence by ensuring that industry participants are continually updating their skills.

The individual units within the Certificate IV in Plumbing and Services have been approved by CBOS for CPD points allocation.

POINTS PER UNIT

Each successfully completed unit within the Cert IV will be worth 10-12 CPD points. Cert IV units can be used to accrue up to a maximum of 36 points per license category during each license term. Points earned in excess of this amount through Certificate IV units cannot be rolled over to the new license period.

More details relating to the CPD system and approved courses can be found on the following websites:


POINTS RECORD

Upon completion of each unit you will be issued the normal Statement of Attainment plus an additional Statement of Attendance that will formally detail the number of CPD points earned. This evidence will be required for your licence renewal. It is up to you to maintain such records.

So that your CPD records are not lost, you can create a personal evidence profile by setting up an account in [www.cpdtoolbox.com.au](http://www.cpdtoolbox.com.au)
HOW TO ENROL

The following steps apply to the enrolment process

ENROLMENT PROCEDURE

Once you have confirmed licensing requirements with CBOS and have read this Course Guide, you need to contact us to commence your enrolment process.

Entry into all units within Certificate IV in Plumbing and Services are subject to an interview with a regional Certificate IV coordinator before confirmation of a place in any course.

- Allocation of a place within available courses
- Booking record and enrolment forms emailed to applicant
- Confirmation of a place only confirmed upon return of enrolment form

Are you doing the FULL Certificate IV?

Y

Enrolment & Library login for access to Australian Standards

N

You apply to TBCITB

Funding confirmed. Enrolment & Library login to Australian Standards

Upon payment your place on the course is now confirmed
PLANS AND COST ESTIMATION COURSE (1ST PRE-REQUISITE)

This is the mandatory pre-requisite course to enrolment into any subsequent Cert IV subject area and is made up from the following two units:

- CPCBC4012B Read and interpret plans
- CPCPCM4012A Estimate and cost work

Students will undertake in-depth review of modern residential construction plans and determine specific plumbing installation requirements and detailed materials schedule.

Using a formal approach to calculating sole-trader business overheads and an accurate hourly rate, students will estimate project requirements and complete a fully costed quotation for at least 3 different plumbing installations.

**Duration**

Approximately 10x 3-hour night class sessions (5:30pm – 8:30pm):
1. Construction plan features
2. Specifications, schematics, prime cost and provisional sum
3. Intro to Isometric drawing
4. Isometric drawing continued…
5. Exam – Read and Interpret Plans
6. Calculation of hourly rate
7. Materials take-off
8. Calculation of quantities
9. Calculation of quantities cont…
10. Final assessment

**Pre-Requisites**

Certificate III in Plumbing/Mechanical Services/Roof/Gas (existing 4th year apprentices may be included if all campus-based training is completed).

**Outcome**

Upon successful completion of the course, students will be awarded Statements of Attainment in both units.

**Cost**

See website for latest costing guide.

**Funding Assistance**

Some participants may be eligible for TBCITB funding assistance. You must apply directly prior to course commencement.

**Dates and Times 2018**

Hobart: 14 February – 21 March 2018
(14, 19, 21, 26, 28 Feb, 5, 7, 14, 19, 21 Mar 2018)
Mon & Wed Nights 5.00pm - 8.00pm

Devonport: 29 January – 14 March 2018
(29, 31 Jan, 5, 7, 14, 26, 28 Feb, 5, 7, 12, 14 March 2018) Mon & Wed Nights 5.30pm – 8.30pm

Hobart: 23 July - 22 August 2018
(23, 25, 30 Jul, 1, 6, 8, 13, 15, 20, 22 Aug 2018) Mon & Wed Nights 5.00pm - 8.00pm

Devonport: 23 July - 22 August 2018
(23, 25, 30 July, 1, 6, 8, 13, 15, 20, 22 Aug 2018) Mon & Wed Nights 5.30pm – 8.30pm

**Prescribed Text/Material Requirements**

- Scale Rule, Biro, Coloured pens - red, Blue, Green & Orange, 2H pencil & eraser

**CPD Points - 12**
CERTIFICATE IV IN PLUMBING AND SERVICES – OPERATIONS STREAM

WHS AND RISK ASSESSMENT

(2ND PRE-REQUISITE)

This is a mandatory course for students and is made up from the following two units:

- BSBOHS403B Identify hazards and assess OHS risks
- CPCPCM4011A Carry out work-based risk control processes

Students will undertake study in the latest requirements relating to WHS hazard and risk control set in a plumbing trade context.

DURATION

3 day course (8am – 4pm):

1. Identification of hazards
2. Identification of unacceptable risk
3. WHS legislation
4. Plumbing work-based assessment of risk
5. Risk mitigation implementation and evaluation
6. Identification of duty holders.

OUTCOME

Upon successful completion of the course, students will be awarded Statements of Attainment in both units.

PRESCRIBED TEXT/MATERIAL REQUIREMENTS

- National Construction Code – Vol 3
- Plumbing Code of Australia 2016
- Company/business WHS Policy, Hazard Incident Procedure & Form, Risk Matrix, Hazard Identification & Pre-Start Checklists to work with during the course
- Scale Rule, Biro, Coloured pens - red, blue, green & orange, 2H pencil & eraser

COST

See website for latest costing guide.

FUNDING ASSISTANCE

Some participants may be eligible for TBCITB funding assistance. You must apply directly prior to course commencement.

DATES AND TIMES 2018

Hobart: 29, 30 & 31 May 2018 (3 Days in total)
8.00am - 4.30pm

Launceston: Date to be advised starting week of 19 March (3 Days in total) 8.00am - 4.30pm

Hobart: 30, 31 Oct & 1 Nov 2018 (3 Days in total) 8.00am - 4.30pm

PRESCRIBED TEXT/MATERIAL REQUIREMENTS

- National Construction Code – Vol 3
- Plumbing Code of Australia 2016
- Company/business WHS Policy, Hazard Incident Procedure & Form, Risk Matrix, Hazard Identification & Pre-Start Checklists to work with during the course
- Scale Rule, Biro, Coloured pens - red, blue, green & orange, 2H pencil & eraser

CPD POINTS - 12
DESIGN AND SIZE HEATED AND COLD WATER SERVICES AND SYSTEMS
(CPCPWT4011B)

Water Licensing Stream - This unit is focused upon the design requirements for cold, tempered and hot water services, flushing systems, hydrants and hose reels for multi-floor installations.

Students will study, interpret and apply water supply principles in accordance with the Plumbing Code of Australia and AS/NZS 3500 Part 1 and 4 as required for multi-storey buildings.

Duration

Approximately 14 x 3-hour night class sessions (5:30pm – 8:30pm):

2. Water main sizing
3. Individual unit sizing
4. Backflow device selection and location
5. Non-drinking water supplies
6. Cold water/non-drinking practice test
7. Cold water/non-drinking Exam
8. Hot/Tempered water sizing
9. Hot/Tempered water sizing
10. Hot/Tempered water sizing Exam
11. Flushing systems and tanks
12. Flushing systems and tanks Exam
13. Hydrants and hose reels
14. Hydrants Exam

Pre-Requisites

Certificate III in Plumbing or Mech. Services Plumbing (existing 4th year apprentices may be included if all campus-based training is completed), PLUS completion of the Common Core units.

Outcome

Upon successful completion of the course, students will be awarded a Statement of Attainment.

Cost

See website for latest costing guide.

Funding Assistance

Some participants may be eligible for TBCITB funding assistance. You must apply directly prior to course commencement.

Dates and Times 2018

Hobart: 26 Mar - 21 May 2018
(26, 28 Mar, 9, 11, 16, 18, 23, 30 April, 2, 7, 9, 14, 16, 21 May 2018) Mon & Wed Nights 5.00pm - 8pm

Devonport: 24 July – 13 Sept 2018
(24, 26, 31 July, 2, 7, 9, 14, 16, 21, 23, 28, 30 Aug, 4, 6 Sept) Tues & Thur Nights 5.30pm - 8.30pm

Hobart: 3 Sept - 17 Oct 2018
(3, 5, 10, 12, 17, 19, 24, 26 Sept 1, 3, 8, 10, 15, 17 October) Mon & Wed Nights 5.00pm - 8.00pm

Prescribed Text/Material Requirements

- National Construction Code – Vol 3
  Plumbing Code of Australia 2016
- AS/NZS 3500 Part 1 & 4
- Scale Rule, Biro, Coloured pens - red, Blue, Green & Orange, 2H pencil & eraser

CPD Points - 12
COMMISSION AND MAINTAIN BACKFLOW PREVENTION DEVICES (CPCPWT4022A)

Water Licensing Stream - Plumbers are charged with the responsibility of protecting the health and safety of the community through the provision of drinking water systems free from cross-connection contaminants.

This unit covers the skills and knowledge required to test, commission and maintain backflow prevention devices in accordance with manufacturer’s specifications, legislative requirements and the AS2845.3.

OUTCOME

Upon successful completion of the course, students will be awarded a Statement of Attainment.

COURSE INFORMATION

3 day course (8am to 4pm):

- Legislation & review of AS/NZS3500.1 and AS 2845.3
- Device selection
- Pressure loss
- Connection and installation requirements
- Device testing and commissioning
- Maintenance
- Documentation
- Final theory and practical exam

PRE-REQUISITES

Certificate III in Plumbing or Mech. Services Plumbing (existing 4th year apprentices may be included if all campus-based training is completed), PLUS completion of the Common Core units.

OUTCOME

Upon successful completion of the course, students will be awarded a Statement of Attainment.

COST

See website for latest costing guide.

FUNDING ASSISTANCE

Some participants may be eligible for TBCITB funding assistance. You must apply directly prior to course commencement.

DATES AND TIMES 2018

Hobart: 5, 6, 7 June 2018 (3 Days in total) 8.00am - 4.30pm
Hobart: 12, 13 & 14 June 2018 (3 Days in total) 8.00am - 4.30pm
Devonport: 9, 10 & 11 Oct 2018 (3 Days in total) 8.00am - 4.30pm
Hobart: 13, 14 & 15 Nov 2018 (3 Days in total) 8.00am – 4.30pm

PRESCRIBED TEXT/MATERIAL REQUIREMENTS

- National Construction Code – Vol 3
  Plumbing Code of Australia 2016
- AS/NZS 3500.1:2015
- AS/NZS 2845.3:2010
- Scale Rule, Biro, Coloured pens - red, Blue, Green & Orange, 2H pencil & eraser
- Practical work PPE

CPD POINTS - 12

See website for latest costing guide.

FUNDING ASSISTANCE

Some participants may be eligible for TBCITB funding assistance. You must apply directly prior to course commencement.

DATES AND TIMES 2018

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CPD POINTS - 12

See website for latest costing guide.

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- Practical work PPE

CPD POINTS - 12

See website for latest costing guide.

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- Practical work PPE

CPD POINTS - 12

See website for latest costing guide.

FUNDING ASSISTANCE

Some participants may be eligible for TBCITB funding assistance. You must apply directly prior to course commencement.

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- AS/NZS 3500.1:2015
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- Scale Rule, Biro, Coloured pens - red, Blue, Green & Orange, 2H pencil & eraser
- Practical work PPE

CPD POINTS - 12

See website for latest costing guide.

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CPD POINTS - 12

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- Practical work PPE

CPD POINTS - 12

See website for latest costing guide.

FUNDING ASSISTANCE

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- AS/NZS 3500.1:2015
- AS/NZS 2845.3:2010
- Scale Rule, Biro, Coloured pens - red, Blue, Green & Orange, 2H pencil & eraser
- Practical work PPE

CPD POINTS - 12

See website for latest costing guide.
COMMISSION AND MAINTAIN HOT AND HEATED WATER TEMPERATURE CONTROL DEVICES
(CPCPWT4023A)

Water Licensing Stream - The most vulnerable people in our community are at risk of severe injury and death through incorrectly installed and maintained thermostatic mixing valves and other water temperature control devices. Aged care homes, hospitals and child care facilities are just a sample of where such devices must be used.

This unit covers the skills and knowledge required to test, commission and maintain heated water control devices in accordance with manufacturer’s specifications and legislative requirements.

Duration
1.5 day course from 8am to 4pm/Noon:
- Legislation & review of AS/NZS3500.4 and AS 4032.3
- Specifications and device selection
- Flow rates
- Connection and installation requirements
- Device testing and commissioning
- Maintenance requirements
- Documentation
- Final theory and practical exam

Pre-Requisites
Certificate III in Plumbing or Mechanical Services Plumbing (existing 4th year apprentices may be included if all campus-based training is completed), PLUS completion of the Common Core units.

Outcome
Upon successful completion of the course, students will be awarded a Statement of Attainment.

Cost
See website for latest costing guide.

Funding Assistance
Some participants may be eligible for TBCITB funding assistance. You must apply directly prior to course commencement.

Dates and Times 2018
Hobart: Date: 27 & 28 Mar 2018 (1.5 Days in total) 8.00am - 4.30pm
Hobart: Date: 26 & 27 June 2018 (1.5 Days in total) 8.00am - 4.30pm
Hobart: Date: 3 & 4 July 2018 (1.5 Days in total) 8.00am - 4.30pm
Devonport: Date: 20 & 21 Nov 2018 (1.5 Days in total) 8.00am - 4.30pm
Hobart: Date: 4 & 5 Dec 2018 (1.5 Days in total) 8.00am - 4.30pm

Prescribed Text/Material Requirements
- AS/NZS 3500.4:2015
- AS 4032.3:2004
- Scale Rule, Biro, Coloured pens - red, Blue, Green & Orange, 2H pencil & eraser
- Practical work PPE

CPD Points - 10
DESIGN AND SIZE
SANITARY
DRAINAGE SYSTEMS
(CPCPDR4011B)

Drainage Licensing Stream - This unit is focused upon the design requirements for sanitary drainage systems to convey soil and waste discharges to an approved connection point or on-site disposal.

Students will study, interpret and apply sanitary drainage principles in accordance with the Plumbing Code of Australia and AS/NZS3500.2 as required for commercial trade waste installations and two-storey residential unit developments.

DURATION
Approximately 8 x 3-hour night class sessions (5:30pm – 8:30pm):
1. Legislation & review of PCA and AS/NZS3500.2
2. Material selection and Fixture Units
3. Sizing of main/branch drain venting requirements
4. Connection and installation requirements
5. Connection and installation requirements
6. Design drawings
7. Design drawings
8. Submission of final exam designs

PRE-REQUISITES
Certificate III in Plumbing (existing 4th year apprentices may be included if all campus-based training is completed), PLUS completion of the Common Core units.

OUTCOME
Upon successful completion of the course, students will be awarded a Statement of Attainment.

COST
See website for latest costing guide.

FUNDING ASSISTANCE
Some participants may be eligible for TBCITB funding assistance. You must apply directly prior to course commencement.

DATES AND TIMES 2018
Hobart: 30 Jan - 22 Feb 2018
(30 Jan, 1, 6, 8, 13, 15, 20, 22 Feb 2018) Tues & Thur Nights 5.00pm - 8.00pm
Devonport: 16 April - 9 May 2018
(16, 18, 23, 25, 30 April, 2, 7, 9 May 2018) Mon & Wed Nights 5.30pm – 8.30pm
Hobart: 24 July - 16 Aug 2018
(24, 26, 31 July, 2, 7, 9, 14, 16 Aug 2018) Tues & Thur Nights 5.00pm - 8.00pm
Devonport: 3-26 Sept 2018
(3, 5, 10, 12, 17, 19, 24, 26 Sept 2018) Mon & Wed Nights 5.30pm - 8.30pm

PRESCRIBED TEXT/MATERIAL REQUIREMENTS
- National Construction Code – Vol 3
- Plumbing Code of Australia 2016
- AS/NZS 3500.2:2015
- Scale Rule, Biro, Coloured pens - red, Blue, Green & Orange, 2H pencil & eraser

CPD POINTS - 12
DESIGN AND SIZE DOMESTIC TREATMENT PLANT DISPOSAL SYSTEMS
(CPCPDR4013B)

Drainage Licensing Stream - This unit is focused upon the design requirements for installation of onsite domestic treatment systems.

Students will study, interpret and apply treatment plant design solutions in accordance with the Plumbing Code of Australia, AS/NZS3500.2 and AS/NZS1547 as required for domestic onsite effluent disposal.

**Duration**
Approximately 6 x 3-hour night class sessions (5:30pm – 8:30pm):
1. Legislation & review of the PCA and AS/NZS1547
2. Material and product system selection, general system requirements
3. Land capability assessment and system sizing
4. Installation requirements and design considerations
5. Design drawings
6. Submission of final exam designs

**Outcome**
Upon successful completion of the course, students will be awarded a Statement of Attainment

**Cost**
See website for latest costing guide.

**Funding Assistance**
Some participants may be eligible for TBCITB funding assistance. You must apply directly prior to course commencement.

**Dates and Times 2018**
Hobart: 13 - 29 March 2018
(13, 15, 20, 22, 27, 29 March 2018) Tues & Thur Nights 5.00pm - 8.00pm
Devonport: 14 - 30 May 2018
(14, 16, 21, 23, 28, 30 May 2018) Mon & Wed Nights 5.30pm - 8.30pm
Hobart: 4 - 20 Sept 2018
(4, 6, 11, 13, 18, 20 Sept 2018) Tues & Thur Nights 5.00pm - 8.00pm
Devonport: 1 - 17 Oct 2018
(1, 3, 8, 10, 15 & 17 October 2018) Mon & Wed Nights 5.30pm - 8.30pm

**Prescribed Text/Material Requirements**
- National Construction Code – Vol 3
- Plumbing Code of Australia 2016
- AS/NZS 3500.2:2015
- AS/NZS 1547:2012
- Scale Rule, Biro, Coloured pens - red, Blue, Green & Orange, 2H pencil & eraser

**CPD Points - 12**
DESIGN AND SIZE STORMWATER DRAINAGE SYSTEMS
(CPCPDR4012B)

Drainage Licensing Stream - This unit is focused upon the design requirements for surface and sub-soil stormwater drainage systems to a legal point of discharge.

Students will study, interpret and apply stormwater drainage principles in accordance with the Plumbing Code of Australia and AS/NZS3500.3 as required for a commercial Class 6 building and two-storey Class 1 residential unit developments, with connection to an external stormwater drainage network.

DURATION
Approximately 10 x 3-hour night class sessions (5:30pm – 8:30pm):
1. Legislation & review of the PCA and AS/NZS3500.3
2. Material selection
3. Sizing requirements
4. Connection and installation requirements
5. Connection and installation requirements
6. Design drawings
7. Design drawings
8. Submission of final exam designs

PRE-REQUISITES
Certificate III in Plumbing (existing 4th year apprentices may be included if all campus-based training is completed), PLUS completion of the Common Core units.

OUTCOME
Upon successful completion of the course, students will be awarded a Statement of Attainment.

COST
See website for latest costing guide.

FUNDING ASSISTANCE
Some participants may be eligible for TBCITB funding assistance. You must apply directly prior to course commencement.

DATES AND TIMES 2018
Hobart: Date: 29 May - 28 June 2018
(29, 31 May, 5, 7, 12, 14, 19, 21, 26, 28 June 2018) Tues & Thur Nights 5.00pm - 8.00pm

Devonport: 5 June - 5 July 2018
(5, 7, 12, 14, 19, 21, 26, 28 June, 3 & 5 July 2018) Tues & Thur Nights 5.30pm - 8.30pm

Hobart: 2 Oct - 1 Nov 2018
(2, 4, 9, 11, 16, 18, 23, 25, 30 Oct & 1 Nov 2018) Tues & Thur Nights 5.00pm - 8.00pm

Devonport: 23 Oct - 29 Nov 2018
(23, 25, 30 Oct, 1, 6, 8, 13, 15, 20, 22, 27 & 29 November 2018) Tues & Thur Nights 5.30pm - 8.30pm

PRESCRIBED TEXT/MATERIAL REQUIREMENTS
- AS/NZS 3500.3:2015
- Scale Rule, Biro, Coloured pens - red, Blue, Green & Orange, 2H pencil & eraser

CPD POINTS - 12
DESIGN AND SIZE SANITARY PLUMBING SYSTEMS (CPCPSN4011B)

Sanitary Licensing Stream - This unit is focused upon the design requirements for sanitary plumbing systems to convey soil and waste discharges to an approved connection point.

Students will study, interpret and apply sanitary plumbing principles in accordance with the Plumbing Code of Australia and AS/NZS3500.2 as required for a Class 6 commercial building and six-storey residential building.

DURATION

Approximately 15 x 3-hour night class sessions (5:30pm – 8:30pm):

1. Legislation & review of PCA and AS/NZS3500.2
2. Intro to San Prin/General req. and elevated pipework
3. Domestic design
4. Single stack systems
5. Design drawings
6. Design drawings
7. Design drawings
8. Design drawings
9. Single stack exam
10. Fully vented modified stacks
11. Design drawings
12. Design drawings
13. Design drawings
14. Design drawings
15. Submission of final exam designs

campus-based training is completed), PLUS completion of the Common Core units.

OUTCOME

Upon successful completion of the course, students will be awarded a Statement of Attainment

COST

See website for latest costing guide.

FUNDING ASSISTANCE

Some participants may be eligible for TBCITB funding assistance. You must apply directly prior to course commencement.

DATES AND TIMES 2018

Hobart: 10 April - 29 May 2018
(10, 12, 17, 19, 24, 26 April, 1, 3, 8, 10, 15, 17, 22, 24, 29 May) Tues & Thur Nights 5.00pm - 8.00pm

Devonport: 24 April – 7 June 2018
(24, 26 April, 1, 3, 8, 10, 15, 17, 22, 24, 29, 31 May, 5 & 7 June 2018) Tues & Thur Nights 5.30pm - 8.30pm

Hobart: 23 Oct - 13 Dec 2018
(23, 30 Oct, 1, 6, 8, 13, 15, 20, 22, 27, 29 Nov, 4, 6, 11, 13 Dec 2018) Tues & Thur Nights 5.00pm - 8.00pm

PRESCRIBED TEXT/MATERIAL REQUIREMENTS

- National Construction Code – Vol 3
  Plumbing Code of Australia 2016
- AS/NZS 3500.2:2015
- Scale Rule, Biro, Coloured pens - red, Blue, Green & Orange, 2H pencil & eraser

CPD POINTS - 12

PRE-REQUISITES

Certificate III in Plumbing or Mech. Services (existing 4th year apprentices may be included if all
DESIGN AND SIZE ROOF DRAINAGE SYSTEMS  (CPCPRF4011B)

**Course Information**

**Roof Licensing Stream** - This unit is focused upon the design requirements for roof drainage systems to efficiently convey rainwater to an approved connection point.

Students will study, interpret and apply roof drainage calculations in accordance with the Plumbing Code of Australia, NCC Vol 2 and AS/NZS3500.3 to design and size eaves/box gutter solutions and associated overflow systems.

**Duration**
Approximately 10 x 3-hour night class sessions (5:30pm – 8:30pm). Except Semester 1
Devonport course (4 day):

1. Legislation & review of PCA and AS/NZS3500.3
2. Eaves gutter systems – General Method
3. Eaves gutter systems – BCA ACP 3.5.2
4. Eaves gutter systems – practice test
5. Eaves gutter systems - Exam
6. Box gutter systems – Rainheads
7. Box gutter systems – Sump/Side Overflow
8. Box gutter systems – Sump High Capacity
9. Box gutter systems – practice test
10. Box gutter systems - Exam

**Pre-Requisites**
Certificate III in Plumbing or Roof Plumbing (existing 4th year apprentices may be included if all campus-based training is completed), PLUS completion of the Common Core units.

**Outcome**
Upon successful completion of the course, students will be awarded a Statement of Attainment

**Cost**
See website for latest costing guide.

**Funding Assistance**
Some participants may be eligible for TBCITB funding assistance. You must apply directly prior to course commencement.

**Dates and Times 2018**

**Hobart:** 27 Aug - 26 Sept 2018
(27, 29 Aug, 3, 5, 10, 12, 17, 19, 24, 26 Sept 2018)
Mon & Wed Nights 5.00pm - 8.00pm

**Devonport:** 30 Jan - 8 March 2018
(30 Jan, 1, 6, 8, 13, 15, 20, 22, 27 Feb, 1, 6 & 8 March 2018)
Tues & Thur Nights 5.30pm - 8.30pm

**Prescribed Text/Material Requirements**
- National Construction Code – Vol 3
  Plumbing Code of Australia 2016
- AS/NZS 3500.3:2015
- Basic Plumbing Services Skills: Roof Plumbing 2e (if required can be purchased upon arrival – approx. $80)
- Scale Rule, Biro, Coloured pens - red, Blue, Green & Orange, 2H pencil & eraser

**CPD Points - 12**
CERTIFICATE IV IN PLUMBING AND SERVICES – OPERATIONS STREAM

DESIGN AND SIZE CONSUMER GAS INSTALLATIONS
(CPCPGS4011C)

Gas Licensing Stream - This unit is focused upon the design requirements for both NG and LPG consumer gas installations.

Students will study, interpret and apply gas design principles in accordance with the AS/NZS5601 part 1 and 2. Designs will include:

- Domestic Standard
- Caravan
- Marine craft
- LPG reticulation to residential units
- NG multi-storey

DURATION

Approximately 10 day course (8am – 4:30pm):

1. Legislation & review of AS/NZS5601 part 1 and 2
2. Installation classifications and drawing
3. Common Flue Manifold sizing and project design work
4. Project design work
5. Project design work
6. Project design work
7. Project design work
8. Project design work

OUTCOME

Upon successful completion of the course, students will be awarded a Statement of Attainment

COST

See website for latest costing guide.

FUNDING ASSISTANCE

Some participants may be eligible for TBCITB funding assistance. You must apply directly prior to course commencement.

DATES AND TIMES 2018

Launceston: week starting 30 July – ending 31 August 2018
date to be advised

Hobart: 31 July - 29 Aug 2018
(31 July, 1, 7, 8, 14, 15, 21, 22, 28, 29 Aug) Tues & Wed 8.00am - 4.30pm

PRESCRIPTED TEXT/MATERIAL REQUIREMENTS

- AS/NZS 5601:2013 Part 1 & 2
  - Must include Amendments 1&2
- Text – ’Basic Plumbing Services – Gas Services’ (if required can be purchased upon arrival – approx.. $80)
- Scale Rule, Biro, Coloured pens - red, Blue, Green & Orange, 2H pencil & eraser

PRE-REQUISITES

Certificate III in Plumbing, Mech, Services Plumbing or Gas Fitting (existing 4th year apprentices may be included if all campus-based training is completed), PLUS completion of the Common Core units.

CPD POINTS - 12
SERVICE TYPE A GAS APPLIANCES (CPCPGS4022A)

Gas Licensing Stream - Modern gas appliances incorporate sophisticated control systems that contribute to their high performance and efficiency. To keep these appliances operating as designed requires gas fitters with high-level servicing skills and knowledge in both gas control systems and electrical diagnosis and testing.

This hands-on servicing course is delivered by specialist TasTAFE gas teachers and covers the following areas:

- Gas appliance control systems
- Electrical fault finding (gas appliances only)
- Conversion procedures
- Multiple servicing assessments on both domestic and commercial catering appliances

**DURATION**

Approximately 10 day course (8am – 4:30pm):

1. Legislation & review of AS/NZS5601 part 1 and 2
2. Appliance locations and LPG vapourisation
3. Appliance conversion theory
4. Appliance strip-down and component ID
5. Combustion theory
6. Gas control systems
7. Gas servicing procedures
8. Final theory exam
9. Final practical exam – Part 1
10. Final practical exam – Part 2

**PRE-REQUISITES**

Cert III in Plumbing/Mech. Services Plumbing/Gas Fitting (4th year apprentices may be included if all campus-based training is completed), PLUS completion of the Common Core units AND the Restricted Electrical Licensing Course (see website).

**OUTCOME**

Upon successful completion of the course, students will be awarded a Statement of Attainment.

**COST**

See website for latest costing guide.

**FUNDING ASSISTANCE**

Some participants may be eligible for TBCITB funding assistance. You must apply directly prior to course commencement.

**DATES AND TIMES 2018**

Hobart: 25 Sept - 31 Oct 2018
(25, 26, 2, 3, 9, 10, 16, 17, 30, 31 Oct 2018) Tues & Wed 8.00am - 4.30pm
Devonport: week starting 24 Sept – ending 26 Oct 2018 date to be advised.

**PREScribed TEXT/MATERIAL REQUIREMENTS**

- AS/NZS 5601:2013 Part 1 & 2
  - Must include Amendments 1&2
- Text – ’Basic Plumbing Services – Gas Services’ (can be purchased upon arrival – approx. $80)
- Scale Rule, Biro, Coloured pens - red, Blue, Green & Orange, 2H pencil & eraser

**CPD POINTS - 12**
ESTABLISH LEGAL AND RISK MANAGEMENT REQUIREMENTS OF SMALL BUSINESS (BSBSMB401)

This is one of the mandatory Stream Core units required to complete a full Certificate IV in Plumbing and Services. It may also be completed by Roof and Gas Fitting specialists on a discretionary basis.

At the time of printing details for delivery and assessment of this unit were yet to be finalised.

Once details have been confirmed this publication will be updated and requirements placed on the TasTAFE website.

DURATION

TBC

PRE-REQUISITES

Certificate III in Plumbing/Mechanical Services/Roof/Gas (existing 4th year apprentices may be included if all campus-based training is completed)PLUS completion of the Common Core units.

OUTCOME

Upon successful completion of the course, students will be awarded a Statement of Attainment.

Cost

See website for latest costing guide.

FUNDING ASSISTANCE

Some participants may be eligible for TBCITB funding assistance. You must apply directly prior to course commencement.

DATES AND TIMES 2018

SEMESTER 1

Hobart: TBC
  • 8am to 4:30pm
Devonport: TBC
  • 8am to 4:30pm

SEMESTER 2

Hobart: TBC
  • 8am to 4:30pm
Launceston: TBC
  • 8am to 4:30pm

CPD POINTS - TBC

See website for latest costing guide.
WHERE TO FROM HERE?

Having read this course guide you will more than likely have more questions.

Please use the contacts on the back of this booklet to talk more about your needs and book an interview for course access.

INFORMATION SESSIONS

2018 Information evenings will be scheduled and advertised for both Semester 1 and 2.
CONTACT

PLUMBING AND REFRIGERATION

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