

CONNECTIONS

Electrical, Gas, Plumbing, Building

Issue 13 | November 2017



Contents

Foreword from the Minister	3
HIA building contracts.....	4
Building legislation workshops	5
Compliance and infringements	5
Safe Work Method Statements (SWMS) - Generic vs site specific	6
RMPAT praise for diligent building surveyor.....	7
Meet the new CBOS education and training officer (CPD).....	8
Maintenance of essential building services	8
We've made mental health a priority	9
Important changes to the Director's Determination for Categories of Building and Demolition Work.....	10
What are these ACP panels they keep talking about?	11
Approved form 35.....	11
The National Engineering Register – the benchmark against which all engineers should practise.....	12
Women in construction.....	14
Residential building work worth \$20,000 or more.....	14
NEW: Renewing your licence with your My Licence account	15
Ways to get CPD points and how to record them.....	16
Upcoming events that have Continuing Professional Development points.....	17
Sale of building wiring cables in Tasmania.....	18
General electricians cannot work on Type B gas appliances.....	19
Installing electrical cooking appliances next to walls and surfaces.....	19
Notification of electrical work	20
Changes to consumer electricity metering.....	21
Meet the new GSS inspector.....	22
Fires starting due to conducted heat	22
Incentives offered to help with Bosch cooker recall.....	23
Type B gas-fitter forum	23
Installing a restraint on outdoor BBQs connected to bayonet fitting.....	24
Complex and prescribed standard gas installations - Conditions of acceptance	24
Dig safely around gas infrastructure - ABC civil	25
AS/NZS 1596—2014 - Notice of amendment	26
Upcoming gas-fitter training.....	26
Product safety recall	27
Why Continuing Professional Development is not as daunting as it sounds	28
Domestic grey water re-use	29
Tassie leads the way with CPD	30
National asbestos awareness month	31

Disclaimer

CONNECTIONS magazine is produced by the Department of Justice.

The Department of Justice and the Crown in the right of the State of Tasmania, its employees and agents disclaim liability for the accuracy or comprehensiveness of the information, data and advice provided in CONNECTIONS; and will not be responsible for any loss, however arising and whether or not due to negligence, arising from reliance on, or action taken on the basis of any information, data or advice provided in CONNECTIONS.

Any information, data and advice is provided solely on the basis that readers will be responsible for making their own assessment and verification of such information, data and advice before any reliance is placed upon it. Views expressed in CONNECTIONS are those of the individual contributors or the editorial committee and are intended to stimulate discussion. They do not necessarily reflect the policy of the Government.

Graphic images

CONNECTIONS may contain graphic images that could offend some readers. We advise schools and libraries with young readers in particular to check content before providing it for use.

Advertising

CONNECTIONS does not carry advertising; does not sell advertising space; and does not use other companies to sell advertising space on our behalf. You should be wary of anyone attempting to sell advertising space for CONNECTIONS, or attempting to claim a debt for advertising.

Contributions and contact details

Your comments and contributions are welcome. The editorial committee reserves the right to publish only those items considered relevant to the scope of CONNECTIONS.

Reader correspondence should be addressed to:

CONNECTIONS

PO Box 56

Rosny Park TAS 7018

Phone: 1300 654 499

Email: CBOSinfo@justice.tas.gov.au

Internet: www.justice.tas.gov.au

Reproducing material from CONNECTIONS for wider distribution is encouraged. Please include the following acknowledgement: "Reprinted from CONNECTIONS, a free publication of the Department of Justice; see www.justice.tas.gov.au"

Front Cover

Aerated wastewater treatment system installation

ISSN 1837-8005





Foreword from the Minister

Tasmania's Building and Construction Industry underpins a strong economy

The Building and Construction Industry is a critical driver of the Tasmanian economy, and the third largest employer in the state employing around 22,800 people. This is an increase of 31 per cent since June 2014 when only 17,400 people were employed in the sector, and the highest number of people employed since records began in 1984.

With the Tasmanian economy going from strength to strength, building and construction businesses are provided with the opportunity to deliver the projects including housing, transport infrastructure, education facilities, and hospitals needed to maintain the high level of living standards Tasmanians expect and deserve.

To support the Building and Construction Industry, the Hodgman Liberal Government introduced nation-leading Building Reforms which came into effect on 1 January 2017. The industry has overwhelmingly supported the reforms; which will make it faster, fairer, simpler and cheaper to build in Tasmania.

Measured against a number of economic indicators, Tasmania is now clearly moving ahead - business confidence is the 2nd highest of any state or territory, labour market conditions and forward indicators are positive, and our tourism industry continues to boom.

In the June quarter 2017, Tasmania had the second strongest growth in engineering construction work done of all states, and bucked the national average which was down 4.2 percent. The value of Tasmania's engineering

construction for the last financial year totalled \$1.305 billion – up 13 percent on the previous year.

We also had the strongest growth nationally in dwelling approvals in the last year to August 2017.

The Hodgman Government's \$2 billion infrastructure investment, including \$245.2 million in new spending - is not only creating jobs when the infrastructure is being built, it continues to generate jobs right through the community long after the money has been spent.

Our successful Northern Economic Stimulus package has already unlocked 45 job-creating projects - and we have now expanded this state-wide, providing more loans to councils to accelerate up to \$60 million in capital investment, creating up to 800 more jobs in the sector.

With our strong population growth and an excellent pipeline of engineering work available, the Government understands the importance of having a skilled construction workforce.

Today's apprentices, trainees and young people entering the workforce will be our next generation of skilled tradespeople and small business owners, and we want to back them to the hilt to gain the skills and the jobs they need.

Even with the number of apprentices employed in the building and construction sector being up 14 per cent year-on-year, with growth in both the traditional trades and civil construction areas, more needs to be done. Delivering the pipeline of projects over the next few years will see strain on the supply of labour.

Industry needs to respond by taking on new apprentices and trainees to ensure the upcoming demand can be met.

To assist, the Government is providing a \$4,000 small business grant to support small business to employ more apprentices and trainees, and is providing larger employers an exemption from their payroll tax obligations for the first two years of any new apprenticeships. These initiatives are a trial and will be in place for two years.

On the housing front, Tasmania has the enviable status of being known as the most affordable state.

But the Government recognises there are still challenges in regards to housing affordability as some Tasmanians can find it difficult to enter the housing market. In response the State Budget contains a New Housing Incentive Package, which will not only make it easier for Tasmanians to build new housing but it also supports employment in the residential building sector.

Tasmania is going from strength to strength and the building and construction sector is now growing again, but there is always more to do.

Under our Plan we will continue to deliver not only a balanced Budget bottom line, but also key initiatives and sensible investments that will build Tasmania's future.

Hon Guy Barnett MP





HIA building contracts



Rick Sassin, Executive Director – Tasmania, Housing Industry Association

HIA has a number of standard contracts available for use by Tasmanian builders. You can buy printed versions of these contracts from HIA at 30 Burnett Street, North Hobart or by calling 03 6230 4660.

HIA standards contracts are also available using Contracts Online at <https://hia.com.au>

Residential Building Contracts (contract price over \$20,000)

Contracts for residential building work with a contract price over \$20,000 must comply with the *Residential Building Work Contracts and Dispute Resolution Act 2016* (the Act). The following contracts are designed to comply with the Act and include the Residential Building Consumer Guide and other matters required by the Act.

- **Tasmanian Residential Plain Language Building Contract**

This contract is suitable for the construction of a new home. This has been tailored to meet all

legislative requirements and has a fair and balanced risk allocation. It is a fixed price contract subject to variations and other price adjustments.

This contract is also suitable for the alteration, addition, or renovation of a home. It caters for those members who perform major renovation type work. It may also be suitable where the work to be done is not to completion (e.g. to lock-up stage).

- **Cost Plus Plain Language Tasmanian Residential Building Contract (available on HIA Contracts Online only)**

This contract is for residential building projects to be done on a cost plus basis. Members should get advice before using a cost plus contract as there are some risks to using such contracts. A cost plus contract could be used for residential building work where the work involves the renovation, restoration or refurbishment of an existing home and it is not possible to calculate the cost of a substantial part of the work without carrying out some building work.

- **TAS Major Kitchen, Bathroom and Laundry Supply and Install Contract**

This contract is for use in the supply and installation of kitchens, bathrooms and laundries with a contract price over \$20,000. It can also be used where the work involves the renovation of a kitchen, bathroom or laundry. It is not suitable where structural changes are involved.

Residential Building Contracts (contract price under \$20,000)

Residential building work contracts where the contract price is under \$20,000 are not subject to the Act. A builder should have a written contract to ensure that the responsibilities and obligations of both the owner and builder are clear. A written contract also makes it much easier for a builder to recover outstanding invoices from the owner. The following simple contracts may be used for these smaller jobs.

- **TAS Kitchen, Bathroom and Laundry Supply and Install Contract**

This contract is for use in the supply and installation of kitchens, bathrooms and laundries. It can also be used where the work involves the renovation of a kitchen, bathroom or laundry. It is not suitable where structural changes are involved.

- **Tasmania Small Works Contract**

This contract is for residential building work which is not complex and does not affect the foundations or slab of an existing building. It would be suitable for smaller alteration and renovation projects.

For information on how to become a HIA member or to buy any of these products, please contact us on 1300 650 620 or visit <https://hia.com.au>



Building legislation workshops

CBOS held a series of workshops and forums around the State in September and October. We invited building practitioners such as builders, developers, building designers, architects, building surveyors, engineers and others working in the building industry with the following attendance:

- 200 in Hobart
- 100 in Launceston, and
- 70 in Burnie.

We also hosted a permit authority forum at Campbell Town for 33 people,

and a separate forum for 35 building surveyors. The workshops were not just for us to provide information and explanations, but to get people talking and providing feedback about the operation of the new *Building Act 2016* and *Building Regulations 2016*.

Topics discussed included:

- important changes to Director's Determinations (published 1 August 2017)
- bushfire prone area requirements
- TasFire update and bushfire mapping

- on-line occupational licensing
- rotting buildings - condensation project progress
- defective work compliance
- EHO referrals
- short term accommodation
- role of permit authorities and consistency
- plumbing permit issues

We will be taking these workshops to the East and West Coasts early in the New Year so look out for your chance to interact directly with us and provide us with your feedback.

Compliance and infringements

So you've completed your TAFE course, done the required hours out in the field and paid good money to get your licence.

You're now a proud, licensed plumber/electrician/gas-fitter.

You know the law and you've read up on the standards. You're doing the continuing professional development to keep your skills current.

And then you find Joe Bloggs is working down the road with a "licence" he got off the back of a cereal box, and undercutting you to boot. And turning in shoddy work that gives everyone in your trade a bad name.

Why isn't somebody doing something about people like him?

Well the answer is – we are.



Infringements against practitioners

Year	Electrical	Plumbing	Gas-fitting
2015	\$32,725	\$56,315	\$8750
2016	\$68,717	\$31,763	\$5604
2017 to date	\$55,382	\$15,059	
Total number of infringements	283	60	16
Total \$\$\$	\$156,824	\$103,137	\$14,354

Infringements relating to unlicensed work:

2015 -17	Electrical	Plumbing	Gas-fitting
Number of infringements	27	43	4
Total \$\$\$ relating to unlicensed work	\$49,000	\$77,000	\$7,140

Matters going to court

Nine more serious matters have ended up in Court. One of these recently resulted in a conviction and total fines of \$21,000 against a company and its associated defendants.

If you suspect someone is working without a licence you can let us know. Send an email to CBOSinfo@justice.tas.gov.au or Phone 1300 65 44 99. You don't have to give your name.

Safe Work Method Statements (SWMS) – generic vs site specific

Throughout my life I have visited a place just north of Taree called Ellenborough Falls at Elands NSW. It's a beautiful spot and spectacular falls. At 200 metres, Ellenborough Falls is one of the longest single drop waterfalls in the Southern Hemisphere. In 2013 I returned to the falls after not being there for some time and I noticed a new warning sign and a new fence restricting access to the top of the falls. The signs had a number of messages including 'sheer cliffs', 'Take care with children' and 'Do not cross barrier'. After hiking around the local bush tracks I returned to the kiosk to get myself some hot chocolate and I said with half a chuckle to the kiosk attendant "Gees, they've really upped the safety standards around here haven't they". The kiosk attendee then told me a sad story of how a young local boy played too close to the edge of the falls and fell over. The local community then took action to raise money and installed the signs and the fence to try and prevent it happening again.

As a safety professional, that story has stayed with me. Every time I visit the falls now, I see the tragedy and the deeper meaning in the words on the signs. I often see similar wording in the policies, procedures and safe work method statements (SWMS) I am asked to write or review and I also

see the dark history that shaped the words on the pages.

Generic or pre-written SWMS developed by an industry will have words that are infused with broken bones, blood, burnt skin and death. They become messages from past accidents and mistakes of a time gone by, a message to anyone reading them on how to avoid an accident. They capture a horrible history of workplace incidents and there is a deep meaning behind those words that acts to protect the reader's future. Although they may not have the poetry of a Nick Cave melody, the hazards and controls are based on such experiences. It's for this reason that generic SWMS can be more superior to a site specific SWMS that often seeks to re-invent the wheel and can often forget the mistakes of the past.

I often hear at workplace safety tradeshow whenever the topic of SWMS arises:

- "SWMS are for high risk activities only" and
- "SWMS need to be simple and easy to understand" and also
- "SWMS need to be site specific"

A lot of criticism over SWMS is that they have become overcomplicated and cause confusion in the workplace. All of these things are true, but let's

try and dissect the arguments for and against.

First off, site specific SWMS are prepared at the site or after a workplace inspection has occurred. Pre-written SWMS with the address changed at the top are not site specific although many builders will argue this. Site specific SWMS are fantastic documents if the work is not routine or multiple trades are working together to achieve the same goal. This would be a very good choice if you were completing a task such as craning a heavy air conditioning unit onto a factory roof. You will have a number of people from different trades working together undertaking many high risk activities at the same time. In this case the site specific SWMS should be short and focus on describing the specific hazards identified for the high risk construction work to be undertaken and the control measures to be put in place so the work is carried out safely.

For routine work that is also considered high risk work generic SWMS are often better documents for the reasons given earlier. Electrical isolation is one such example. An electrician may complete this task countless times throughout the day depending on what they are attempting to do. It would get extremely frustrating if they had to



complete a SWMS for every time or every site they did this. The safety controls rarely change for electrical isolation. Consult, identify, isolate and test before touch. You need to have a SWMS for this task because it is mandated by the WHS regulation in chapter 6.

Having generic SWMS also helps a Person Conducting a Business or Undertaking (PCBU) comply with Chapter 3 of the WHS regulation. This section requires duty-holders to identify hazards, apply and maintain a hierarchy of risk control measures and, in specified circumstances, review those risk control measures. There are also additional regulations that a PCBU needs to be compliant with including:

- Part 3.2 – General workplace management
- Part 4.1 – Noise
- Part 4.2 – Hazardous manual tasks
- Part 4.3 – Confined spaces
- Part 4.4 – Falls
- Part 4.7 – Electrical safety and energised electrical work

- Part 4.8 – Diving work
- Chapter 5 – Plant and Structures
- Chapter 6 – Construction Work
- Part 7.1 – Hazardous chemicals
- Part 7.2 – Lead
- Chapter 8 – Asbestos
- Chapter 9 – Major Hazard Facilities, and
- Chapter 10 – Mines

A business will often have a variety of generic SWMS covering different routine tasks. These tie in compliance to multiple sections of the WHS Regulation in order to simplify a safety management system. Sometimes there is criticism by principal contractors for having a SWMS that is too complicated.

My advice to employers is:

- Have a safety management system with core generic SWMS that cover routine tasks.
- Review these SWMS annually and compare them against the industry SWMS.
- Induct and train your workers into these internal processes and

provide onsite access to these core documents.

- Use site specific SWMS when they are called for during non-routine tasks. This will help insulate employers from when accidents happen and regulators come for a closer look at how you manage safety. Then have a separate set of SWMS that make your principal contractors happy.

An industry has better access to data of workplace incidents. This is much better than a singular business that operates in that industry. Businesses should look to compare or even adopt industry written generic SWMS so they are not just learning from their own mistakes but from others as well.

Owen Leslie

**Northern NSW Regional Manager
National Electrical and
Communications Association (NECA)**



national
electrical and
communications
association



RMPAT praise for diligent building surveyor

Under the *Building Act 2016*, building surveyors have a statutory duty to ensure compliance of building projects in Tasmania.

Their role is to represent the owner of the property, not the builder or designer doing the building work. By doing this, the community is protected from buildings that don't meet National minimum standards.

It can be a challenging task when pressure is brought to bear from all directions to cut costs and build faster.

So we'd like to congratulate a building surveyor for carrying out his

duties and earning this accolade in a recent decision of the Resource Management Planning and Appeals Tribunal (RMPAT):

"...the requirements which have been made by Mr Grice [the Building Surveyor] are reasonable. His work reflects a diligent approach to the important duties attaching to the role of building surveyor. Those obligations are onerous and Mr Grice's actions demonstrate that he is aware of the responsibility he bears, and is fulfilling the statutory duty reposed in him."



Meet the new CBOS education and training officer (CPD)

CBOS is pleased to introduce Kate Nielsen who recently joined the Technical Regulation Unit as an Education and Training Officer. Kate has spent the past 9 years as an Inspector with WorkSafe Tasmania, predominantly working in the construction and asbestos industries. Kate spent 5.5 years in the Burnie office and returned to Launceston 3.5 years ago. Prior to WorkSafe, Kate worked in management roles within the hospitality and wine industries and was also a small business (café) owner.

Kate facilitated the roll out and delivery of the National Harmonised Work Health and Safety Legislation prior to its commencement in 2012, to all within (at the time) Workplace Standards now WorkSafe Tasmania. Having held a regulatory position within WorkSafe Tasmania, Kate has a sound knowledge of compliance and regulation and will work with industry and stakeholders state-wide.

Kate's role is to co-ordinate the development, promotion and delivery of a state-wide educational and Continuing Professional Development program relating to Technical trades across Building, Plumbing, Gas and Electrical, including the provision of high level information and advice to stakeholders.



Maintenance of essential building services

When buildings are first built, they are designed to meet the building standards of the day. These standards include the features of a building that keep those that use it safe. But over time, these safety features degrade if not maintained.

Regular maintenance of essential safety measures, such as fire safety exits and airflow, ensures they remain operational throughout the life of a building and are reliable in an emergency.

The building features that must be maintained are listed in a Director's Determination on Essential Building Services. The Determination also lists the frequency of tests and inspections. One of the most significant changes to prescribed building maintenance under the new Act, has been the shift from simple annual programs, to setting up a program that matches the risk associated with potential failure of a feature. The other really noticeable change has been the removal of the requirement to display a form in the entrance area of a building. Instead, the focus has been transferred

to doing the maintenance at the appropriate time rather than just having a piece of paper on display.

The owner of a building has the responsibility to ensure a maintenance schedule is set up, but it is the job of a building surveyor to create it. The building owner must then ensure that appropriately qualified people complete the maintenance routines at the right frequency. Records of this maintenance need to be kept by the building owner, as they can be audited at any time. The last piece of the system is the review of the schedule to ensure that it continues to reflect the features of the building. This review must be completed by a building surveyor at least once every year.

You can view the Director's Determination at

www.justice.tas.gov.au/building/publications

You will find the form for the schedule at

www.justice.tas.gov.au/building



WE'VE MADE MENTAL HEALTH A PRIORITY!

*We've become part of the Master Builders / OzHelp initiative because
a mentally healthy workplace works better for everyone*



Supporting the Tasmanian Building and
Construction Industry



www.ozhelptasmania.org.au
(03) 6231 0919



FOR MORE INFORMATION EMAIL:
admin@ozhelptasmania.org.au



Important changes to the Director's Determination for Categories of Building and Demolition Work

Recently the Director of Building Control conducted a review of the Director's Determination for Categories of Building and Demolition Work. Using the initial comments we received during the initial implementation, CBOS conducted a series of consultation meetings with reference groups to consider and develop required changes.

The result of this process was a number of tweaks to help understand the categories of work. Whilst most of the changes are aimed at improving the clarity of the boundaries between the different risk levels, there are a small number of significant changes:

1. Low risk farm sheds increased to 200m² – The most significant change to farm sheds is an increase to the threshold for low risk work. The maximum size for an engineered design and prefabricated steel shed has increased to less than 200 square metres. A number of other limitations on wall height, overall height and span, are now defined to ensure low risk is maintained. The full list of limitations are listed

in clause 1.4.1 (Category 1 Low Risk Work) of the Determination.

2. Swimming/Spa pool barriers as notifiable work – In the first edition of the Director's Determination for Categories of Building and Demolition Work, pool barrier fencing was assessed as low risk work. As part of the review process, and in response to industry submissions, this work is now reclassified as medium risk, Category 3 work, and has therefore moved to clause 3.1.10 in the Determination. As a result, design and installation of pool and spa barriers is now notifiable work requiring building surveyors to ensure compliance.

3. Building surveyor discretion – A new clause has been introduced giving a building surveyor the discretion to allow notifiable work to be completed as low risk work by Builder (Category 2). The building surveyor must complete a risk assessment and keep a written record of the basis for the decision. The risk assessment is provided to the builder and/or

owner so the risk assessment can be submitted with the Form 80 Low Risk Work notification to Council. There are some exclusions to this discretion and so building surveyors should refer to the Determination.

4. Alterations to a Class 2-9 building – Clause number 3.3.2 allows for an alteration including minor external work to a commercial class building, to be completed as notifiable work. The work must be minor and does not structurally change the building. Examples of this category are office fit out where most of the work is moving screens around and painting or shop fit out where path to exit is not compromised.

You can find the Director's Determination for Categories of Building and Demolition Work on the Department's website at www.justice.tas.gov.au/building. The revised Determination came into effect on 1 August 2017.

What are these aluminium composite panels they keep talking about?

Aluminium Composite Panels (ACPs) hit the headlines following the Grenfell tower block fire disaster in London earlier this year, and a less catastrophic fire in the Lacrosse building in Melbourne in 2014.

ACPs are flat panels consisting of two thin aluminium sheets bonded to a non-aluminium core. This core often includes some degree of combustible material such as polyethylene.

But not all ACPs have a combustible core, so making sure the right panel is used in the right place requires constant vigilance by everyone in the building industry.

ACPs are frequently used for external cladding or facades of buildings, insulation, and signage. In most cases, ACPs can be used safely

which is why we have the National Construction Code to set the standards on where and how they can be used.

But, in some cases these panels may not comply with the NCC, either because:

- The product does not meet Australian standards (non-conforming product); or
- It meets Australian standards but has not been installed correctly (non-compliant use).

Consumer, Building and Occupational Services (CBOS) has undertaken an audit of buildings in Tasmania prioritised by risk. So any building that is a high risk to a large number of people, or has a high risk of incorrect use of ACPs, has been reviewed as

part of the audit.

As we go to print, any identified use of ACPs has been checked as safe and in compliance with the national standards set by the NCC.

To prevent further incidents, the Director of Building Control is taking action to minimise the further use of these products in Tasmania.

Approved form 35

What is it?

Approved Form 35 - Certificate of Responsible Designer and TasWater Exemption, is a designer's statement that their design is likely to comply with the *Building Act 2016* and National Construction Code.

Who completes it?

A licensed designer responsible for design of proposed work completes a Form 35.

Who receives the Form 35?

The regulator (building surveyor or permit authority) who assesses the design

TasWater statement

The form now includes a statement that work will not affect TasWater's assets.

Your say...

Since the introduction of CPD requirements for builders in 2004 it has been an ever-increasing challenge to find courses that are different to those already undertaken in previous years. Our staff were pleased to participate in a physiotherapy workshop on manual handling recently run by HIA and Coastal Physiotherapy in Burnie this year.

CPD courses such as these are necessary to ensure the longevity of a builder's career and all of our staff thoroughly recommend these types of courses be undertaken as part of a builder's CPD requirements.

Ilene Burrows
Somercam Building Services



Charlie and Sean

The National Engineering Register – the benchmark against which all engineers should practise

Use of the title 'engineer' is largely unrestricted and has become a generic term. In the absence of regulation for engineering, anyone can claim to provide engineering services without the appropriate competencies, and with total disregard for standards.

Engineering services are vital to Tasmania's – and Australia's – economic prosperity and social well-being. The community and business expect high standards from engineering practitioners. Poor engineering work can pose serious risks for public health, safety and property.

The greatest risk is from people attempting to undertake engineering work without adequate skills or competencies. Risks include:

- increased construction and rectification costs
- litigation expenses
- lost production and
- injury or death.

In Australia, registration of engineering practitioners varies across the states and territories. For example, South Australia and Western Australia have no registration or licensing provisions of any kind, while Queensland has mandatory registration.

In Tasmania, engineers are accredited to undertake building services work in the building industry. The Department of Justice lists three categories of

engineers under the "Design Class":

1. Fire Safety Engineers
2. Building Services Engineers
3. Civil Engineers.

Civil designers also require an engineering qualification and appropriate experience.

Registration internationally is somewhat different. Many comparable countries to Australia now require registration for engineers. These include the USA, Canada, European Union, Singapore, Japan and New Zealand.

The National Engineering Register

The National Engineering Register (NER) was developed as an initiative by Engineers Australia. It is a voluntary national system of registration to provide transparency of an engineer's experience and qualifications to all consumers of engineering services.

Launched in November 2015, the NER is the largest publicly searchable engineering register in Australia. It is accessible to all eligible engineers both members and non-members of Engineers Australia.

Listing on the NER is available to the whole engineering team:

- Engineering Associates
- Engineering Technologists and

- Professional Engineers.

These occupations cover those that require licensing in Tasmania under the *Occupational Licensing Act 2005*.

The NER provides consumers with a means for assessing the quality of potential providers of engineering services.

Importantly, it also ensures a common standard for engineering practice in all states and territories, and ensures that engineers are not required to comply with different rules in each jurisdiction.

Registration on the NER is an approved pathway:

- to being a licensed Building Services Provider (engineer) in Tasmania and
- for registration purposes in Queensland (Register of Professional Engineers Queensland – RPEQ).

"As an engineer there are a number of reasons to join the register," said Glen Crawley Registrar, Professional Standards. "The major benefit is that you will have the ability to be found by name, area of practice, and geographic location".

Benefits of registration on the NER

Engineering services are purchased by governments, large and small business and individual consumers.

Your say...

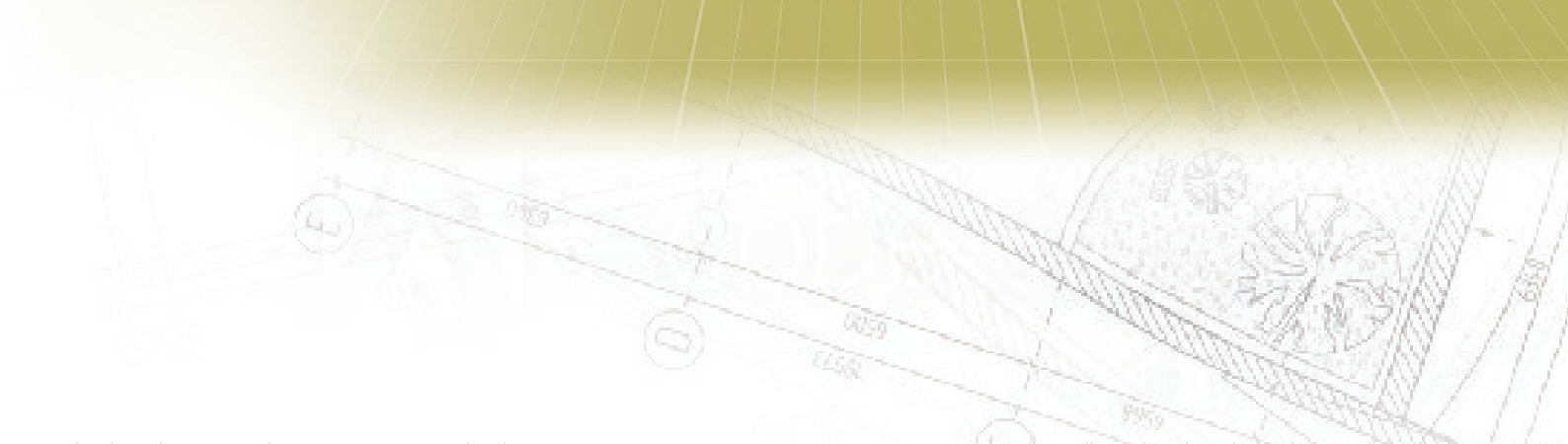
Despite there being some apprehension towards the introduction of CPD when it was introduced and a lot of us were not too keen to be giving up our work time 'just to meet some new regulation' I think things have

settled down and I am comfortable with the concept. I regularly attend workshops at the HIA and Trade Events organised by several different industry organisations. These events and workshops present a good opportunity to stay up to date with industry trends, changes to legislation and keeping informed of new products on the market. I am currently undertaking

further ongoing study at the HIA to further my business and this will also satisfy my CPD requirements for the coming renewal period.

Peter Blythe,
Peter Blythe
Builders





In the absence of a common standard for ordinary engineering practitioners, consumers are limited in terms of the extent to which they can measure the professionalism of an engineer they wish to engage.

The NER aids the market by providing advice to consumers on the competence and experience levels of engineering practitioners. This enables consumers to make more informed decisions and reduces the tendency for consumers to choose services based on price alone.

The NER provides assurance that registrants have:

- a recognised qualification benchmarked to international standards
- a minimum level of relevant professional experience
- currency of continuing professional development
- the benefit of professional indemnity insurance
- a commitment to ethical practice.

All eligible members on the NER will be able to use the post nominal of registration “NER” subject to having the benefit of PII in the provision of engineering services.

How to become registered on the NER

The NER has two points of entry including Chartered status or by having 5 or more years work experience post-graduation.

Assessment requirements for those with 5 or more years work experience post-graduation include:

- Work experience statement
- CPD Record
- Referee check
- Benefit of Professional Indemnity Insurance (PII)
- Interview required to verify work experience

It is important to note that Chartered status remains the internationally benchmarked badge of competence

that all professionals in the engineering team should aspire to achieve. The 5 or more year experience route is a compliance benchmark to provide confidence that individuals have the minimum level of qualifications and experience to practice.

Your registration on the NER is a very powerful and practical demonstration of a commitment to professional principles and to the serious obligations of professional practice. It signals to those who use your services that you have met Engineers Australia’s national compliance standard of professionalism.

For more details on the NER, visit the Engineers Australia website www.engineersaustralia.org.au



ENGINEERS
AUSTRALIA



Women in construction

The Building and Construction Industry is the third largest sector in the state by employment; covering 22,800 people in total. Importantly, it is the largest employer of full-time workers (19,200) and this extends to young people between the ages of 18 – 25. It is no surprise then that the Building and Construction Industry is also the largest trainer of apprentices.

Unfortunately, one statistic where the industry doesn't excel is around the employment of females. Around 10% of the total building and construction workforce are women, but only 1% operate at the trade level. One of the most obvious ways to tackle this challenge is for the building and construction sector to transform itself into an industry of choice; one that appeals to all working Australians, not just males. Master Builders Tasmania believes that some of the reasons why there are few women employed in the

industry at a trade level include:

- lack of knowledge of what the industry can offer
- lack of support from parents and friends to enter the industry
- teachers and career advisors lacking knowledge of the industry and therefore not promoting it to young and aspiring school leavers

Master Builders Tasmania (MBT) is aiming to turn this around by supporting and encouraging women to participate in the industry in non-traditional roles such as labourers or tradespersons. MBT's Women In Construction program includes mentoring, networking and

information sessions. The program is designed to assist women to enter and remain in the industry at all levels. By bringing women together and providing support and advice, the Association hopes to break down the barriers that are stopping them from entering a career in our industry.

To achieve its aim, the Association asks everyone in the building and construction industry to take a proactive approach to changing workplace culture so that it becomes an industry of choice for both men and women. I would encourage all participants to join MBT in its efforts to address the gender imbalance that exists.

Residential building work worth \$20,000 or more

The introduction of the *Building Act 2016* and the *Residential Building Work Contracts and Dispute Resolution Act 2016*, on January 1 this year has led to a number of changes to the way the industry operates. An important but relatively unknown requirement introduced under these changes affects contractors undertaking residential work worth \$20,000 or more. Under the changes, all contractors must have a compliant contract and meet certain consumer protection related obligations. In essence, anyone doing building or building related work on or associated with residential dwelling needs to do the following:

- have a written contract that includes information detailing the owner's statutory 'cooling-off' period and their ability to withdraw

from the contract under certain circumstances

- the owner must not give directions to the building contractor's employees or subcontractors. They must communicate only with the builder or their authorised representatives
- the contract must include the statutory warranties prescribed in Part 6 of the Act
- the contract price must be clear or the method for calculating it be clearly stated. Any prime cost, provisional sum, variation, GST or progress payments must be clearly explained
- progress payments must be appropriate and directly relate to the progress of the work performed under the contract at the building site
- dates for commencement and

completion must be stated or be able to be calculated

Virtually any work associated with a residence, including subcontract work, triggers the provisions of the Act and therefore requires a compliant contract. As you can see, it is critically important that contractors working directly for a member of the public on residential work worth \$20,000 or more familiarise themselves of the requirements of the Act.



Michael Kerschbaum
Executive Director



NEW: Renewing your licence with your My Licence account

What's new?

On 8 November 2017 licence holders started to renew and apply for their licence online at

www.justice.tas.gov.au/licensing

In most cases you will be able to apply and renew a licence much faster because you will only need to go to a Service Tasmania shop if you need to prove your identity or have your photo taken (photos are valid for 10 years).

Why change?

We responded to our customers who told us they:

- can't afford the time away from their businesses to lodge paperwork (time is money)
- want flexibility to renew their licence when it suits them, at any place and any time
- want more online services with access by mobile devices such as smartphones, laptops or tablets.

What happens now?

All licence holders will automatically get a **My Licence** account.

You will get a letter from CBOS when it is time to renew your licence. This letter will include everything you need

to know about how to access your My Licence account.

With your My Licence account you can:

- renew your licence
- update your licence details
- order a replacement card
- print a paper copy of your licence
- make a payment
- give access to a partner or admin support

My Licence will also:

- store your payment fee / receipts
- store your renewals
- store your supporting documents (e.g. qualifications / insurance)
- store messages from CBOS

Your My Licence account is like using online banking or completing a form online. There is no need to remember a password. My Licence accounts are accessed using a code sent to a mobile phone or email address.

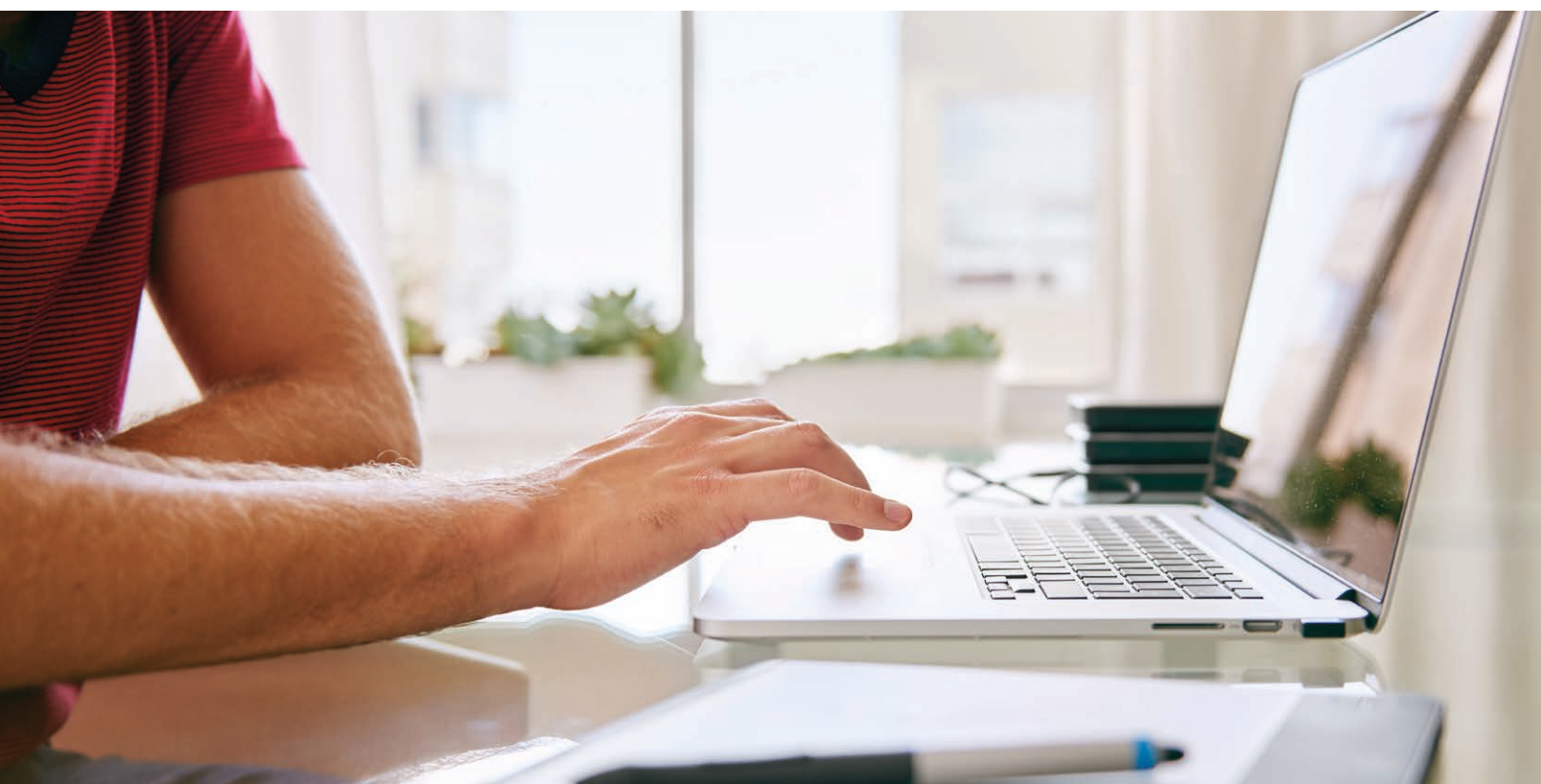
Need help accessing online services?

LINC Tasmania (libraries and online access centres) has offered to assist anyone who needs help to access online services.

CBOS is excited to work with LINC Tasmania. LINC Tasmania will provide:

- free access to computers and the internet and support in their use
- access to scanners and support for uploading documents to online services
- computing courses to support Tasmanians who have difficulty in accessing everyday online services (talk to your LINC for more information about their computing courses)
- their literacy tutor network to support Tasmanians who have difficulty with everyday literacy and numeracy tasks, such as completing online forms (talk to your LINC for more information about their literacy programs).

If you have any questions or need more information on the new licensing system please call **CBOS on 1300 654 499**, or read the Guide to licensing services online at www.justice.tas.gov.au/licensing



Ways to get CPD points and how to record them

Continuing Professional Development has been in place for over a year now, and there are two questions that we are frequently asked:

- how do I get my CPD points? and
- how do I record my CPD points?

Getting your CPD points

So, how do you get your points? Very easily! The CPD requirements are very flexible and there is a range of approved learning activities to count towards your CPD points.

Examples of this include

- trade events
- conferences
- forums and/or
- face-to-face classroom style

We have also recognised that for some there may be difficulties in attending the traditional face-to-face courses, so e-learning/online programs are also available through Registered Training Organisations or Industry Associations for licence holders.

To find approved activities visit the CBOS website at

www.justice.tas.gov.au/licensing

You will find a range of events listed under the Industry Categories of CPD approved activities. Also provided under “Professional Development Activities” is an alphabetical listing of recognised and accredited training sources that CBOS has put together

for you to use. The website also lists the types of CPD activities and their points value.

Recording your CPD

So, now that you have attended the CPD activity, you need to record it. You can capture this information by the easiest method for you, and we suggest that you keep it as simple as possible. Examples of this could be to record it in your diary or on a simple spreadsheet. CBOS has an example of a spreadsheet on their website for you to look at and use.

Continuing Professional Development Record

[illegible]

The main details to record are:

- the date
- the training course
- the training provider
- number of CPD points
- certificate of attendance or attainment (a good-to-have, but not necessary)

In most cases, training providers issue you with evidence of attendance or

attainment. Examples of this could include a certificate, academic record, attendance record, or a receipt if you purchase or hire learning resources. This information can also be added to your record should you want to include it.

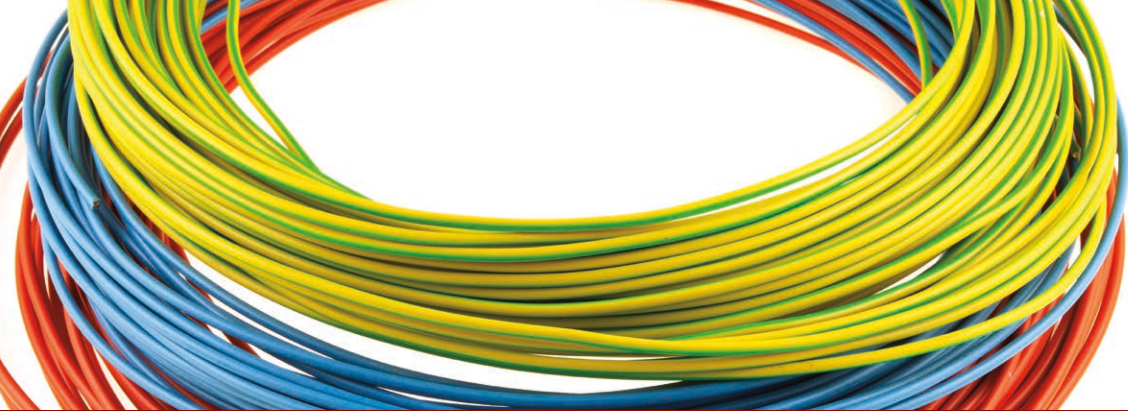
For more information visit the
CBOS website at
www.justice.tas.gov.au/licensing

and read further about Continuing Professional Development. You will find available CPD activities for each of the industries.

If you have any further questions regarding Continuing Professional Development, contact CBOS either by email: cbosinfo@justice.tas.gov.au or phone 1300 654 499.

Upcoming events that have Continuing Professional Development points

Date	Event	Industry	Provider & Where	Points
Ongoing Events/Training				
As Required	Better Work Tas Networking Sessions	Electrical, Plumbing, Gas-Fitters	Worksafe Tas	2
As required	Grundfos Pumps Australia Course	Plumbers	Grundfos Pumps Registration: http://cpdtoolbox.com.au/ Where: Online	2
As required)	Enter and Working in a confined space	Electrical, Plumbing, Gas-Fitters	RIS Safety Registration: Call 1300 663 255	6
As required	Safe Working at Height for resource and infrastructure sectors	Electrical, Plumbing, Gas-Fitters	RIS Safety Registration: Call 1300 663 255	6
As required	MPA Tas CPD Toolbox	Electrical, Plumbing, Gas-Fitters	MPA Tas Registration: http://cpdtoolbox.com.au/ Where: Online	As per activity
Events/Training - For further details contact the providers				
28 November 2017 (8.30am – 5pm)	AS/NZS 4024.1 - Machine Safety Seminar	Electrical	SICK – Sensor Intelligence Registration: https://www.sick.com/au/en/trainings/training-machine-safety/w/training-machine-safety/ Where: Hobart	3
6 December 2017 (9am – 3pm)	Introduction to Onsite Waste-water Design and Assessment, Best Practice in Tasmania	Building, Plumbing	Centre for Environmental Training / Master Plumbers Tasmania / Department of Justice, CBOS Registration: www.environmentaltraining.com.au/page33746/taswastewaterpdworkshops.aspx Where: Work & Training, 1 Bowen Rd Moonah	5
7 December 2017 (9am – 3pm)		Building, Plumbing	Centre for Environmental Training / Master Plumbers Tasmania / Department of Justice, CBOS Registration: www.environmentaltraining.com.au/page33746/taswastewaterpdworkshops.aspx Where: Work & Training, 26 Elizabeth St Launceston	5
8 December 2017 (9am – 3pm)		Building, Plumbing	Centre for Environmental Training / Master Plumbers Tasmania / Department of Justice, CBOS Registration: www.environmentaltraining.com.au/page33746/taswastewaterpdworkshops.aspx Where: Work & Training, 56 Oldaker Street Devonport	5
6 December 2017 (4pm – 7pm)	Introduction to Onsite Waste-water Design and Installation, Best Practice in Tasmania	Building, Plumbing	Centre for Environmental Training / Master Plumbers Tasmania / Department of Justice, CBOS Registration: www.environmentaltraining.com.au/page33746/taswastewaterpdworkshops.aspx Where: Work & Training, 1 Bowen Rd Moonah	3
7 December 2017 (4pm – 7pm)		Building, Plumbing	Centre for Environmental Training / Master Plumbers Tasmania / Department of Justice, CBOS Registration: www.environmentaltraining.com.au/page33746/taswastewaterpdworkshops.aspx Where: Work & Training, 26 Elizabeth St Launceston	3
8 December 2017 (4pm – 7pm)		Building, Plumbing	Centre for Environmental Training / Master Plumbers Tasmania / Department of Justice, CBOS Registration: www.environmentaltraining.com.au/page33746/taswastewaterpdworkshops.aspx Where: Work & Training, 56 Oldaker Street Devonport	3
1 March 2018 (8.30am – 5pm)	AS/NZS 4024.1 - Machine Safety Seminar	Building, Plumbing	SICK – Sensor Intelligence Registration: https://www.sick.com/au/en/trainings/training-machine-safety/w/training-machine-safety/ Where: Devonport	3
Upcoming Events/Training – Dates to be advised				
TBA	Sonnen Eco8 Installation	Electrical	Tas Renewable Energy Alliance Inc	4
TBA	Wiring Rules (AS/NZS 3000:2017)	Electrical	CBOS – Statewide	6
TBA	Plumbing Code Australia	Plumbing	MPA Tas	TBC
TBA	Australian Standards 3500	Plumbing	MPA Tas	TBC



Sale of building wiring cables in Tasmania

WorkSafe New Zealand has identified that some cable in the New Zealand market has inadequate certification, or appears not to have been manufactured in accordance with the certification requirements.

Under Tasmanian legislation building wiring cable suppliers must make sure the product complies with the relevant Australian electrical safety Standard, and be marked approved before sale.

Cable markings are a readily accessible indicator of whether the cable is likely to be compliant.

Electrical contractors should be cautious about using cables directly imported from overseas, as they may not be compliant with Australian Standards.

Correct labelling

Compliant double insulated cable must be durably and legibly marked with the following information on the outermost surface at intervals of no more than 550 mm along its length:

- A registered name or registered mark which identifies the cable manufacturer or supplier
- Year of manufacture
- Designation of insulation, e.g. V-90, and

- 'ELECTRIC CABLE' followed by voltage rating, e.g. 450/750 V for cable constructed to AS/NZS 5000.2.

The cable packaging (or drum) must also be marked with the following:

- A registered name or registered mark which identifies the cable manufacturer or supplier
- Voltage rating, e.g. 450/750 V
- The number of cores and size of the conductor(s)
- Designation of insulation (e.g. V-90) and over sheath (e.g. 3V-90)
- The catalogue number or type number or name or other marking to distinguish the cable
- Length of cable, and
- The relevant standard – either AS/NZS 5000.1 or AS/NZS 5000.2.

The cable or its packaging must be marked with an approval number or the Regulatory Compliance Mark (RCM).

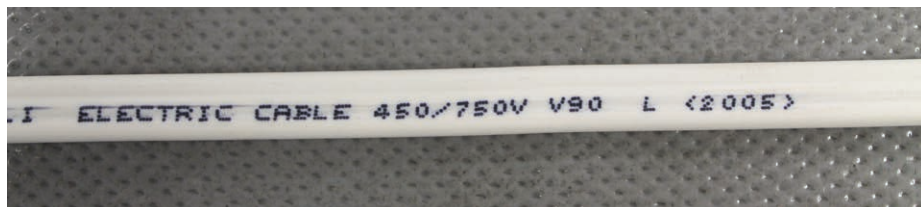
Don't use cable that is incorrectly labelled

Any cable not marked with all of this information is not compliant with the Australian Standard and must not be sold, supplied or installed.

Cable which is incorrectly labelled may have other significant safety problems, making it hazardous for use as building wiring.

Cable (or drum/packaging) which is not labelled correctly should be treated as evidence the cable itself is non-compliant. As a result it is unsuitable for sale, supply or use in Tasmania.

Electricity Standards and Safety advises anyone who has been supplied with building wiring cable which is incorrectly labelled, not to use it and to contact CBOS at cbosinfo@justice.tas.gov.au



Your say...

Master Builders Australia member, Ian Mansfield, was travelling on a tourist bus in Canada when a fellow passenger collapsed.

Because Ian had done the first aid course through MBA, he was able to get the man out of his seat, get him onto his side and make sure his airways were clear. The man recovered.

Ian has since done the refresher course because he knows from

personal experience how important it is to keep his skills up-to-date. 'The course through MBA is well worthwhile' says Ian. 'It's very hands on. The presenter is ex-paramedic and explains things well'.

General electricians cannot work on Type B gas appliances

Have you been asked to work on a Type B gas appliance?

An Electrical Practitioner asked to perform electrical work on a Type B gas appliance will need to work in conjunction with and be supervised by a Type B Gas-fitter Practitioner (Certifier) with a licence level equal to the work being undertaken.

Electrical Practitioners can obtain, and must hold, one of the following Gas-fitter Practitioner (Certifier) licence endorsements to work on type B appliances.

- Type B Level 1
- Type B Level 2
- Type B Level 3

A Type B appliance licence includes the electrical controls of the appliance within the recognised competence of the licence holder. Electrical work on a Type B appliance must also be carried out within the appliance specifications and as-commissioning settings for

correct and safe operation of the appliance.

The scope of work on a Type B gas appliance varies based on the level of licence held.

The scope of work ranges from being able to work on a site specific Type B gas appliance: an appliance limited to a maximum gas consumption or an appliance with unrestricted gas consumption that includes design, layout and modification work.

The various levels of licence scopes range from being able to do some or all of the following work:

- fault identification
- like-for-like component replacement
- servicing
- maintenance
- installation
- commissioning and testing in accordance with manufacturer's instructions and relevant Standards

Example of a Type B appliance - gas fired steam boiler



Example of a Type B gas appliance - electrical controls



Installing electrical cooking appliances next to walls and surfaces

When you are installing an electrical cooking appliance, including electric ranges, ovens and cook tops, you must follow the manufacturer's instructions which will specify the distances from walls and other surfaces for that particular appliance.

These minimum distances protect the surrounding surfaces and the appliance itself, including internal wiring and components, from high temperatures.

Electric ranges, ovens and cook

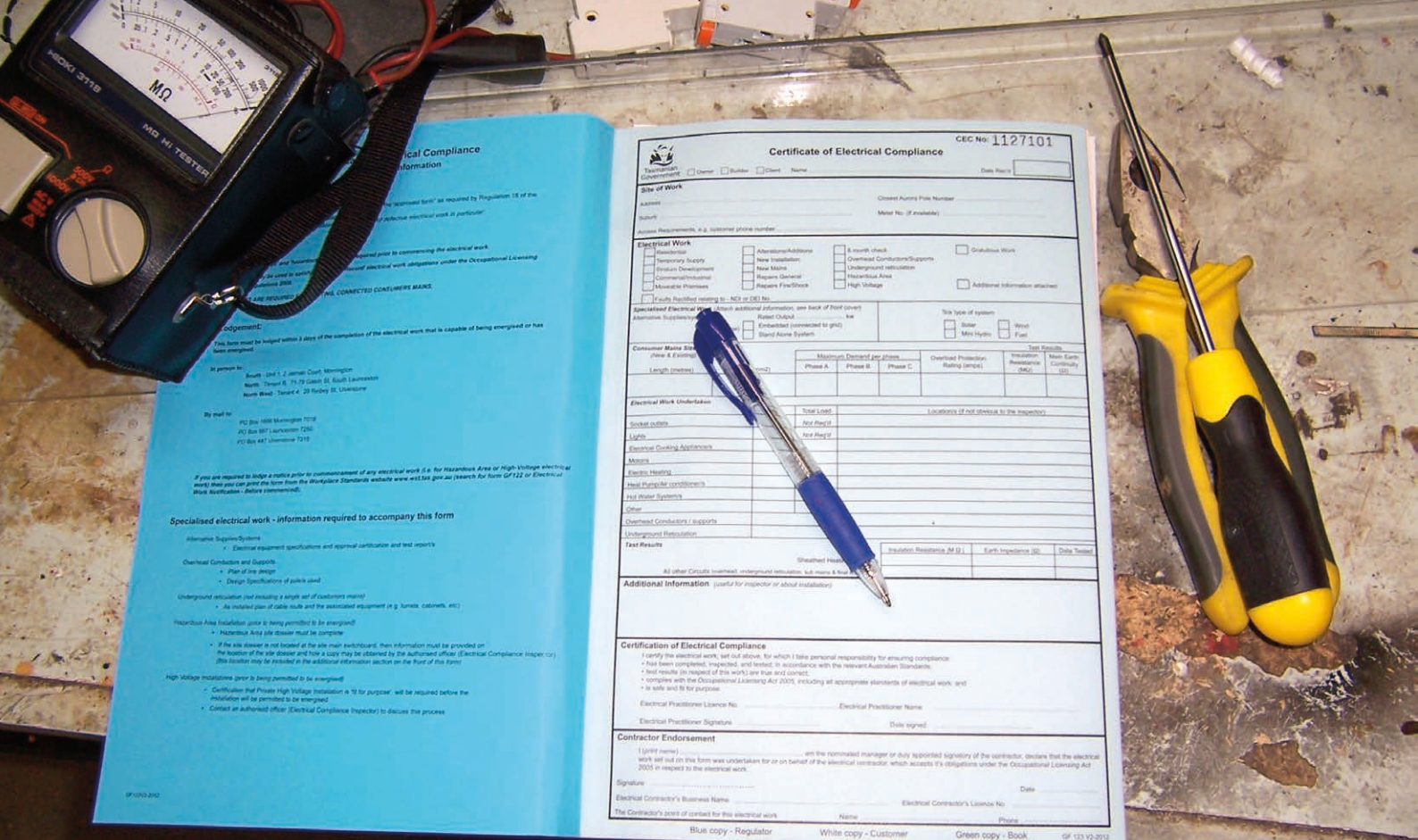
tops must be approved before being offered for sale.

Approval is granted on proof that the appliance complies with the relevant electrical safety standard AS/NZS 60335 - *Household and similar electrical appliances - Safety - Part 1 General requirements*.

This Standard sets out the testing requirements so appliances and their surroundings do not reach excessive temperatures in normal use.

Also watch out for the new Wiring Rules regarding electrical accessory exclusion zones around cooking appliances.





Notification of electrical work

Electricity Standards and Safety would like to remind all contractors of the requirement to provide completed Certificates of Electrical Compliance (CEC) to TechSafe within 3 days of energising the electrical work.

Submission methods

There are three ways to submit CECs

By Mail

- PO Box 1666 Mornington Tas 7018
- PO Box 667 Launceston Tas 7250
- PO Box 447 Ulverstone Tas 7315

In Person

- South: Unit 1, 2 Jannah Court, Mornington 6282 3100
- North: Office 10, 187 Brisbane Street, Launceston (Note new office location) 6345 5100
- North West: Tenant 4, 28 Reibey Street, Ulverstone 6425 2079

By Email

Sending Requirements

1. Each scanned CEC (PDF) must:
 - a. be readable
 - b. contain the one entire CEC image in PDF format
 - c. be an individual PDF
 - d. may have multiple individual attachments relative to that installation
 - e. be named as CEC number followed by full address:

Example: 123456789- 1 Smith Street, Hobart, 7000

2. Do not send in the hard copy. Keep this copy for yourself.
3. Certificates that can't be read, are incorrectly completed or do not contain the complete CEC image, will not be accepted and will be sent back to be corrected.
4. Send the certificate from an email address you check regularly
5. Contractors still need to keep their copy of the Record of Electrical Work and the sent email
6. You can send multiple scanned CECs as individual PDFs in one email
7. Email to tasec@techsafe.com.au

Particular completion requirements

All fields on the CEC must be completed and signed off:

- Client's Details - client's full name (person for whom the work was done)
- Site of Work –
 - full address (not a lot number)
 - contact number to arrange access for inspection
- Electrical Work - tick correct box(es) to describe type of work completed
- Additional Information - provide any other information that is relevant
- Certification of Electrical Compliance - must provide responsible practitioner's name, licence number, date and signature
- Contractor Endorsement - must provide contractor's name, licence number, date and signature of nominated manager (or approved signatory)

Incomplete CECs may be returned without being processed.

Changes to consumer electricity metering

There are changes to the national Power of Choice rules, to include consumer electricity metering. This follows recommendations made by the Australian Energy Market Commission to give consumers greater choice over their electricity use.

Tasmania must participate in these changes which begin on 1 December 2017.

New meters

The introduction of new meter technology is key to the rule changes, with new products and services to be developed.

Practically, it means that any new meters installed from 1 December are advanced meters.

New metering services

Changes to the Power of Choice rules also affects metering services. From 1 December 2017 Metering Coordinators (MCs) need to be in place to provide metering services, which are currently provided by the electricity distributor, TasNetworks, for new meters.

Metering Coordinators will manage the installation, reading and support of new advanced meters.

TasNetworks will remain responsible for:

- Meter Reading (of existing meters)

- Meter Testing (of existing meters)
- Connections to the point of supply
- Disconnections/Reconnections (of existing meters)
- Alterations to the Network
- The repair and replacement of faulty equipment owned by TasNetworks (except for meters)

Metering Coordinators will be contracted to provide metering services on behalf of electricity retailers, including Aurora Energy and ERM.

Aurora Energy is the main retailer for Tasmania. They are in the final stages of contracting an MC for residential and small business customers.

Large customers for both retailers already select their own MC. This means retailers work with a number of MCs for business customers.

Why is this happening?

Separating metering services encourages competition for this role. This will enable the development of new products and services that will help customers to make more informed choices about products, the way they use electricity and manage their electricity budget.

Both Aurora Energy and ERM are working with MCs and TasNetworks to implement the national regulatory changes to metering services.

Industry information sessions

TasNetworks has been communicating with electrical contractors about these industry changes. Throughout September, TasNetworks held trade nights in Ulverstone, Launceston and Hobart, which have been attended by approximately 1000 participants.

Representatives from Aurora Energy, Metering Dynamics and Powermetric (ERM's Metering Coordinator) were introduced and the topics covered included:

- Overview of national Power of Choice Metering reforms
- Introducing industry participants in Tasmania
- New connections and alterations
- Changes to the Service and Installation Rules
- New EWR portal
- New training and accreditation scheme

If you missed out on these sessions and want to get a copy of the information pack, please email ECtradenight@tasnetworks.com.au

Consumer, Building and Occupational Services and the Department of State Growth are working with all key stakeholders in this area to ensure safety standards are maintained.



From left to right: Warren Brooks TasNetworks, Hayden Moore Aurora Energy, Rowan Knapp Metering Dynamics, Duncan Livingstone on behalf of Powermetric

Meet the new GSS inspector

CBOS is pleased to introduce Toby Terry who recently joined the Gas Standards and Safety team as an inspector. Toby has come to us with plenty of experience having spent nearly his entire adult working life in the construction industry. Completing his trade as a plumber gas-fitter on the North west coast, Toby moved back to Launceston to work with a local gas-fitting business where he gained vital experience in the industry.

Bound for something different Toby spent 2 years working on large boats and barges in the marine farming industry. As Toby describes "While this scene isn't for most, I returned back to Launceston where I started a career on the other side of the meter." Working in the gas distribution industry provided Toby crucial insight into the essential world of compliance and regulation, as well as the operation and maintenance of gas infrastructure. Combining this knowledge and experience means Toby is a valuable member of GSS team.

Toby's role is a new one for GSS inspecting and monitoring compliance of 'Standard Gas Installations'. Historically inspections in this space have been driven by complaints and/or incidents. The Director of Gas Safety identified this as a risk to the current GSS regulatory model which required a dedicated state-wide focus.



Fires starting due to conducted heat

Gas Standards and Safety (GSS) has been alerted by Energy Safe Victoria that in recent years they have attended a number of commercial kitchen fires. The cause of these fires is related to the intense heat from flue products that discharge from the flueways of commercial catering equipment.

A fixed spacer should be installed to ensure that an appliance connected to a hose, or similar, cannot be pushed back further than allowed.

On many appliances such as brat pans and steamers the combustion products discharge from the rear of the appliance. These combustion products impact directly onto stainless steel splashbacks where the heat is then transferred through fire resistant material into walls where

the combustible materials can dry out over time and in bad cases cause a fire.

With the substantial risks seen in the ESV investigations, GSS expect that if a wall is a timber frame, or it can't be proven that the wall is made out of non-combustible materials, all commercial catering equipment discharging directly onto the wall will need to have a minimum 50mm air gap between the appliance and the wall. Provide a greater gap than 50 mm if required by the appliance manufacturer. Refer clause 6.10.2.3 of AS/NZS 5601.1 — 2013 *Gas installations*

Further information is available at <http://www.esv.vic.gov.au/> or by contacting CBOS on 1300 645 499 or email cbosinfo@justice.tas.gov.au



Example of the hidden dangers when the proper precautions are not considered



Incentives offered to help with Bosch cooker recall

BSH Home Appliances Pty Ltd (BSH) is offering a \$50 spotter's reward to technicians and service agents who identify a Bosch cooker that is part of our repair action program.

*Conditions apply

Gas Standards and Safety (GSS) highlighted in the April edition of the Connections Magazine that BSH had recalled some Bosch 60 cm Freestanding Gas/Electric Cookers, because in certain instances the adaptor between the gas supply and the appliance may crack causing a potential gas leak. This has the potential to cause an explosion.

Models and batch numbers

Affected Bosch cookers were manufactured between August 2007 and November 2011 including model and batch numbers:

- HGV74W255A / 01 to / 18 FD8901 to FD9111
- HGV74W355A / 01 to / 17 FD8901 to FD9110
- HSV745055A / 01 to / 02 FD8708 to FD8912

BSH has been able to complete the safety rectification works on 32 % of the known affected cookers sold in Tasmania.

Whilst in general recall terms 32% is very good coverage, BSH and GSS are not comfortable with the public risk resulting from the remaining cookers that have not been found.

GSS and BSH request your help in identifying these remaining cookers. Take advantage of the spotter's reward and keep an eye out for these cookers at work and by looking through your old gas fitting notice book entries.

To qualify for the spotters reward the agent needs to complete a "Spotters Reward" form with the cooker and customer details. Request a form by e-mailing repairactionau@bshg.com

*Conditions

*There are conditions to this offer. For example the cooker must be an affected model and the parts not replaced already. For a full list of these conditions or any further questions

you should contact BSH on phone 1300 360 447 or email BSHAU-AS@bshg.com

Check appliance details online

Appliance details can be checked at www.gascookingsafety.com to see if it is an affected model. Also if a recalled product is listed, or if you're unsure, then immediately shut off the gas to the appliance and contact BSH Home Appliances Pty Ltd. on 1300 955 742 or www.gascookingsafety.com

Your say...



Around 50 plumbers recently had some very good "hands on" learning in a Davey Pump Selection and Installation Training session

Type B gas-fitter forum

Gas Standards and Safety held another successful gas-fitter forum in Launceston on 8 May 2017. Over 40 Type B licensed gas-fitters attended. The presenter was Richard Stoklosa who has over 25 years of experience in industry risk management. Richard presented and lead discussions on the new Appendix M risk assessment requirements in AS 3814—2015 *Industrial and commercial gas-fire appliances*

CBOS has made available some tools to help gas-fitters with risk assessment requirements. The Industry Risk Assessment Tool – AS 3814 Industrial and commercial gas-fired appliance is available at www.justice.tas.gov.au/building/gas



Installing a restraint on outdoor BBQs connected to bayonet fitting

Working in an ever changing industry, it is important we don't forget about the 1%ers.

All good gas-fitters understand safety. All great gas-fitters understand safety AND compliance. To be great we should never lose sight of the little things.

Gas Standards and Safety (GSS) is talking about the increase in requests by consumers to connect their BBQ to their domestic gas installation, and the need to install a restraint. Even if there is no BBQ available to connect during the installation, it is a requirement of clause 5.10.1 of AS/NZS 5601.1 —

2013 *Gas installations* to install a means of securing a safety chain or wire within 50 mm of the quick connect device. It is suggested as part of your installation handover that you confirm with the consumer not only the need to connect a restraint, but make sure they understand the gas type required when selecting a BBQ.

If the consumer does have the BBQ during the installation of the connection point, a gas-fitter should install the restraint cable or chain and ensure that the appliance hose is not subject to strain, abrasion, kinking or

permanent deformation (clause 5.9.5 of AS/NZS 5601.1)

GSS also reminds gas-fitters that in all circumstance, it is essential that a Mj/h rating of any bayonet fitted (inside or outside) is written on a gas-fitting notice, especially when an appliance is not connected straight away. This way everyone has a record of the maximum size appliance allowable due to room size constraints or similar.

For further information read AS/NZS 5601.1 or contact CBOS on 1300 645 499, cbosinfo@justice.tas.gov.au

Complex and prescribed standard gas installations - conditions of acceptance

Complex and prescribed standard gas installations acceptances issued by the Director of Gas Safety are valid for a period of 2 years, unless the installation is commissioned and all others condition are met.

Gas-fitters should be aware if the complex or prescribed standard installation has been commissioned and the Director has not received the signed gas-fitting notice, this breaches Regulation 47 of the Gas (Safety) Regulations. This breach may result in a fine up to \$3180.00.

Conditions of any acceptance also include, but are not limited to:

- the installation complying with the relevant standards.

- the gas-fitter forwarding the completed and signed gas fitting notice to:
 - the Director of Gas Safety; and
 - the person on behalf the work was carried out; and/or
 - the owner of the installation; and
 - the gas supplier.
- as commissioned drawings and data

If the Director has not received a signed gas-fitting notice for the commissioned gas installation and/or the conditions of acceptance have not been met within the 2 year period, CBOS will send the gas-fitter a letter

asking for the current installation status.

The information you provide in response may include the following:

- the installation is commissioned and the signed gas-fitting notice is forwarded to the Director; or
- the installation has not been completed and proposed completion timeframes are provided to the Director; or
- the installation has not been commenced and a new application for acceptance is submitted to the Director if the installation is re-commenced.



Dig safely around gas infrastructure – ABC Civil

A company recently found out it does not pay to ignore rules around excavating near buried gas infrastructure. ABC Civil Group Pty Ltd (a civil contracting company) was convicted and fined for excavating next to gas infrastructure owned by Tas Gas Networks.

Gas Standards and Safety's investigation resulted in ABC Civil Group Pty Ltd pleading guilty to a single charge of carrying out excavation in ground within 900mm of gas infrastructure when information on the location of that infrastructure was available.

The location of gas infrastructure and other safety material is available through the national infrastructure

register Dial Before You Dig (DBYD) service.

- go to www.1100.com.au
- download the app using a mobile device or
- contact during business hours.

The Director of Gas Safety, Dale Webster said "It is recognised globally that the greatest threat to the integrity of buried gas pipelines is accidental damage by third parties who may be digging nearby. Third party damage to underground infrastructure of all types continues to be a source of danger and financial loss to workers, members of the public, infrastructure owners and contractors. When the infrastructure is a gas pipeline, then

the consequences of a rupture can be devastating."

"Accordingly I strongly encourage any person intending to undertake excavating or boring activities to contact the gas network owner or the Dial Before You Dig (DBYD) service," said Mr Webster.

"The result demonstrates that there are significant consequences for businesses that fail in their obligations to protect public interests and gas infrastructure".



Notice of amendment

AS/NZS 1596-2014 Australian/New Zealand Standard. The Storage and Handling of LP Gas

AS/NZS 1596—2014 *The storage and handling of LP Gas* changed in August 2017

You should read all of the amendments immediately as any, or all, could form part of your next LP Gas Storage installation.

An important change is the addition of **Appendix Q: Impact Protection.**

Protection of your LP Gas storage installation, the inclusion of normative **Appendix Q (IMPACT PROTECTION)**. This appendix provides a method for assessing the

impact protection requirements of LP Gas installations exposed to potential vehicle impact; where elimination of the risk is not practical.

This Amendment applies to the Preface, Clauses 1.2.1, 1.2.2, 2.3, 4.3.1, 4.4.5, 4.4.11, 4.5.4, 5.5.5, 6.10.2, 6.12, 6.12.4, 7.5.2, 8.3.1, 8.5.6, 10.5.15, 11.2.2 and 11.12.6 Figures 1.1(A), 1.1(B), 1.1(C) (new), 1.1(D) (new), 1.1(E) (new) and 4.3.1 (new), Appendices A, D, F and Q, Appendix R (new).

A points system (risk matrix) is used to decide if protection is required. This then allows cross reference against the actual protection requirements, including separation distances from the storage to the protection.

Keeping Standards up to date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. It is important you make sure you are using the current Standard.

You can find more detailed information about joint Australian/New Zealand Standards by visiting the Standards Web Shop at www.saiglobal.com where you can get a free electronic version of the Amendments that have taken place within the AS/NZS 1596—2014.



Upcoming gas-fitter training

Are you interested in getting a Gas-fitter (Certifier) Type B Level 2 licence endorsement?

TasTAFE will shortly be seeking expressions of interest to do training in CPCPGS4023B - install, commission and service Type B gas appliances. Training will start in early 2018.

This course is suitable for the following trades who want to, or

are currently working in the gas industry:

- Electricians with Level 1 Type B gas-fitting licence wanting to apply for Level 2 Type B licence (will only have to complete appropriate sections of training)
- Electricians wanting to apply for Level 2 Type B licence
- Licensed gas-fitters wanting to apply for Level 2 Type B licence

For information on Unit of Competency details go to <https://training.gov.au/Training/Details/CPCPGS4023B>

For more information or to nominate for a position contact TasTAFE Plumbing.

Phone: (03) 6165 6608

Email: admin.plumbing@tastafe.tas.edu.au

Product Safety Recall

Kmart Australia Ltd — and 'Jackeroo' and 'Active & Co'
Portable Single Burner Butane Gas Stove



Model no. PL-222 - IAPMO Certification no. GMK10262

What are the defects?

Gas leakage may occur while the product is in use

What are the hazards?

If the defect occurs during use there is a possibility of fire or explosion

Dates available for Sale.

9 November 2015 – 2 May 2017

What should customers do?

- Customers should stop using this product immediately and return it to any Kmart store for a full refund.
- Contact Kmart Customer Service on 1800 124 125 Monday – Friday between 7am and 7pm
- Go to www.kmart.com.au

More information on product recalls is available www.productsafety.gov.au

Why Continuing Professional Development is not as daunting as it sounds

Plumbing, as a profession, is becoming increasingly technical and diverse. It's heavily regulated because the risks to public health and the environment from non-compliant plumbing are so significant.

Safe plumbing is the cornerstone of public and environmental health and safety and, as guardians of such, licensed plumbing professionals must be fully informed on all matters that affect the delivery of compliant plumbing services to the community.

A robust program of quality CPD is one method for ensuring that plumbing professionals remain current in their skills, knowledge and practices in a technical profession that is constantly evolving. The benefits of a meaningful and quality based CPD program are numerous and include, but are not limited to:

- increased positive consumer outcomes
- increased public and environmental outcomes
- reduced faults presenting risk to building / structure integrity
- increased health and safety outcomes
- reduced liability and commercial risks to plumbing businesses
- reduced insurance claims through non-compliant plumbing works
- reduced complaints to statutory authorities

- strengthened business viability through reductions in rectification works, and
- increased opportunities for plumbing businesses to safely introduce new and emerging technologies, for example hydronic installations.

The Master Plumbers Association of Tasmania has worked closely with the Tasmanian Regulator in the introduction of CPD for the plumbing industry and has developed a program of approved CPD activities through an online portal called CPD Toolbox.

CPD Toolbox enables users to:

- see what CPD activities are available including online activities
- register online for activities
- upload other CPD activities
- keep records of CPD activities including points gained
- get information and news on CPD
- print and email a CPD Report of completed activities to the regulator to accompany licence renewal, and
- apply to the Tasmanian Building and Construction Industry Training Board (TBCITB) for training subsidy.

Overall the plumbing industry in Tasmania has embraced the introduction of CPD. While the system is being embedded the regulator has introduced a moratorium (until July

2019) on compliance action against practitioners who have not undertaken sufficient CPD. This will ensure that there is ample time and opportunity for all plumbing practitioners to become familiar with the system and comply.

Any licensed practitioner who believes that they don't need to up skill and they don't need to be continually keeping abreast of changes in their industry is doing themselves, consumers and the public a grave injustice. CPD is not about introducing red tape, it's about providing opportunities for the industry to increase its productivity and services, reduce its business risks and protect the community we are entrusted to serve.

Master Plumbers Tasmania welcomes input and ideas from all plumbers and gas-fitters – members and non-members who have ideas and suggestions to make this a flagship CPD program that will, most likely, be the model that other States look to with the future introduction of their own CPD programs.



Your say...

As a small business/sole operator working across a number of trade disciplines in the plumbing industry, staying informed and trained in application of new products and systems is a priority. Additionally, Australian Standards and the requirements of local compliance

authorities are periodically updated and changing so communicating, liaising and interacting with such organisations and with our own industry associations such as The Master Plumbers of Tasmania enable me to perform safely, comply, evolve and grow with ever changing technology and demands of the industry and my clients.

CPD Toolbox is an easy and convenient way to book into my

timetable events, training and meetings with relevant industry partners not only in real time hands-on training but also convenient online training that assist me with my knowledge base and continuing professional development. It enables me to offer my customers, my peers and myself the most informed relevant knowledge in relation to my trade.

Providing services to the consumer

Domestic greywater re-use

Principles

Greywater is a valuable resource which, when re-used or recycled appropriately, can reduce demand for potable water. It is not clean water and contains contaminants such as disease causing microorganisms, chemicals, hair, lint, skin, fats, oils and nutrients.

The quality of greywater will vary considerably depending on what is discharged into a plumbing fixture. A resident can significantly improve greywater quality by selecting detergents that are low in sodium, phosphorous, boron or disinfectants.

Storage of untreated greywater in a holding tank for more than 24 hours is not permitted as the water quality degrades and offensive odours may be emitted.

Greywater recycling or re-use must:

- not create an unacceptable risk to the health of the building

occupants, neighbouring residents or members of the public

- be applied in a sustainable manner without damaging soil structure or negatively impacting on vegetation
- not involve greywater being directly applied onto fruit or vegetables
- be applied within the boundaries of the property generating the greywater and be set back a sufficient distance (specified in the Director's Guidelines - On-Site Wastewater Management Systems) from the property boundaries to prevent run-off onto neighbouring properties or public land.

Only treated greywater (Level 1 or 2) from a greywater treatment system may be surface irrigated onto the land. Direct bucketing is not considered to be surface irrigation because the person applying the water can both control the amount of water applied (to prevent over irrigation) and avoid generating aerosols.

Greywater re-use options

Selecting the appropriate re-use option

There are three categories of greywater re-use options:

1. treatment systems
2. diversion
3. manual bucketing.

The type of option selected will depend on what the water is to be used for and how much land is available. Further details on the re-use options including requirements and limitations are contained in the full article.



Example of an On-site domestic wastewater treatment system

Use of greywater

Use	Tertiary Treated (Level 1)	Secondary treated (Level 2)	Secondary treated (Level 3)	Greywater diversion	Manual bucketing
Lawn watering (sub-surface)	✓	✓	✓	*	✗
Lawn watering (spray irrigation designated fixed pop up sprinklers)	✓	✗	✗	✗	✗
Irrigation (covered surface drip)	✓	✓	✗	✗	✗
Watering garden plants	✓	✓	✓	✓	✓
Watering fruit and vegetable	✗	✗	✗	✗	✗
Toilet or urinal flushing**	✓	✓	✗	✗	✗
Cold water supply to automatic clothes washing machine**	✓	✗	✗	✗	✗

* must use appropriate sub-surface irrigation pipes for greywater that has only been screened not treated

** greywater supply pipes and fittings must be lilac recycled water to prevent cross connections

Read the full article on Domestic Grey Water Re-use at www.justice.tas.gov.au/building/publications

is costly and carries the weight of responsibility in ensuring public safety through maintaining the standard of trade practices as licensed contractors and practitioners.

I enjoy my work and having received over the last 30 years of my trade

practices a comfortable living. I am only too happy to spend the 10-12 hours per year, a day or two in a year of work being engaged through the CPD program in developing myself professionally.

Paul Harley Keutmann, Tassie Trade Services





Tassie leads the way with CPD

Chairman of Master Plumbers Australia, Mr Robert Pearshouse, says that other States are looking to Tasmania for guidance and support on how they can emulate the success it has had with its Continuing Professional Development (CPD) program for Plumbers.

Master Plumbers groups across Australia have heaped praise on the Tasmanian Government for being the first State to get compulsory Continuing Professional Development across the line. Yet again Tassie is leading the way and other States want what we have.

CPD is a no-brainer: in what world would you not expect professional tradespeople including Plumbers to be upskilled in their trade? New

technologies, new policies, new standards... anything to keep currency with how the industry is changing and developing. Gaining the mandatory number of points is not hard Doing a course, attending a training session or reading an industry magazine for example will all gain you points. It's about keeping current and active in your profession. The public expect it, and it's certainly not too onerous. Tasmanian Plumbers have embraced the policy wholeheartedly. It's great to see people out and about again. There's a variety of courses and events to go to - some quite involved courses to upskill and some more simple information sessions about industry changes for example. All important.

Master Plumbers Australia has formed a working committee working hard to achieve mandatory CPD across Australia. It will happen. It is only a matter of time before CPD for plumbers becomes mandatory for all States and Territories but Tasmania did it first. It is what industry wants. Since its introduction, I am constantly asked and interviewed by various stakeholders about Tasmania's CPD programme. 'How can we adopt it?' they are saying. It makes me very proud to be a Tasmanian.

Robert Pearshouse
Chairman
Master Plumbers Australia

Your say...

When CPD was introduced to Roofing Plumbing my first thoughts were of another onerous task to add to our already busy working lives. The thought of having to promote the idea to our employees and that they would have to do some training in their own time would also be a challenge. We decided to focus on the benefits of CPD and how it would benefit them as Roof Plumbers and employees. Questions soon flowed as to why should they have to worry about CPD points, how did

it work? how many points would they require each year etc. etc. Fortunately, being a member of the Master Plumbers Association allowed our employees to access their online CPD Toolbox Portal. A quick explanation of the CPD Toolbox and how it worked quickly removed the anguish. Once you remember your login details (the hardest part) the rest is easy. It's a one stop shop where you can easily register the points gained from attending a relevant training session, view upcoming relevant, and review completed activities, the total of CPD points obtained and your certificates, there was no need for the guys to keep

any documentation once they'd uploaded it to the portal. Not having to store and rifle through piles of paperwork when proof of compliance was required was a huge plus!

We have found the Toolbox useful in that each individual can manage their own CPD and chose activities relevant to their role within the business therefore obtaining maximum benefit from training sessions. Flexibility around the ways activities are delivered also allows everyone to choose a session which suits them best.

Lindsay Pyke,
Select Roofing and Guttering

National Asbestos Awareness Month

Come and meet Betty on her Tassie tour

29 October to 25 November 2017

 www.facebook.com/BettytheADRIhouse

Betty is a purpose built, mobile model home demonstrating where asbestos might be found in and around Australian homes.



Do you know if you have asbestos in your home, or the houses and buildings you're renovating or re-building?

Hint:

- Asbestos was added to over 3,000 products before it was totally banned for use in Australia in 2003
- It can be found in bathrooms, kitchens, carports, roofs and more
- **Chances are, asbestos is there**

Despite the bans, the risk of mesothelioma remains. Older structures may contain asbestos cement sheeting and other asbestos products. Demolition of any structures built before the asbestos bans is particularly dangerous, as is any renovation or remodelling project that puts individuals in contact with these locations or products.

Whether you're a tradie or a DIY home renovator, go to WorkSafe Tasmania at www.worksafe.tas.gov.au for practical information on being 'asbestos' safe.

CONNECTIONS

Feedback

Your feedback is important to us.

If you would like to comment on Connections, please contact us at:

CBOSinfo@justice.tas.gov.au OR

PO Box 56, Rosny Park TAS 7018

Ph: 1300 654 499

Fax: 03 6173 0205

Web: www.justice.tas.gov.au

CONNECTIONS mailing list details

If you would like to be added to the mailing list, please email the following details:

Name:

Position/Title:

Organisation:

Postal address:

Phone:

If you would like to be removed from the mailing list or change details for the current subscription, please provide the new details or request by emailing CBOSinfo@justice.tas.gov.au or ring 1300 654 499



CBOS is now a member of 26TEN and we are working to make our website easier to read for busy people.

26TEN is Tasmania's campaign for adult literacy and numeracy. For more information visit www.26ten.tas.gov.au

Personal information we collect from you will be used by the Department of Justice for that purpose and may be used for other purposes permitted by legislation and policies administered by the Department of Justice. Your personal information may be disclosed to contractors and agents of the Department of Justice; law enforcement agencies, courts and other public sector bodies or organisations authorised to collect it. This information will be managed in accordance with the Personal Information Protection Act 2004 and may be accessed by you on request to this Department.