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OFFICIAL PUBLICATION FOR THE CONCRETE SAWING AND DRILLING ASSOCIATION OF AUSTRALIA

ISSUE 14 MARCH 2018

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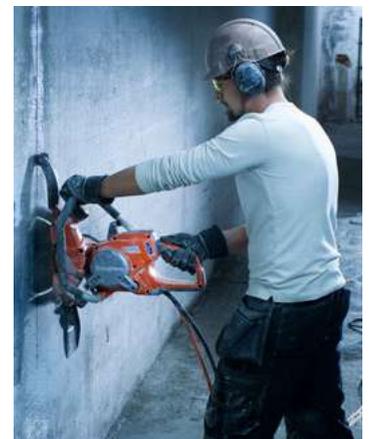
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COVER IMAGE

Special thanks to Husqvarna for the use of one of their stock photos for our front cover image this year.



PRESIDENT'S REPORT 02/02/2018

Today's AGM in Melbourne provides us with an opportunity to look back on 2017 and review what has been achieved in what was a very busy year.

It is also the time to announce the new executive team and thank the outgoing executive committee for their time and effort.

Two thousand and eighteen kicks off the year with today's AGM in Melbourne and with the following events in the first quarter:

- World of Concrete in Las Vegas: 22nd-26th Jan
- Husqvarna National Diamond Conference, Sydney: 15th-17th Feb
- CSDAA Tech Fair, Maui Hawaii: 6th-10th March
- CSDAA Charity Golf event, Torquay Sands Golf Club: 8th March

The CSDAA is again a corporate sponsor of a charity golf day in Torquay Victoria to help raise funds for the Barwon Health Foundation. Money raised from this event is used to support children and infants with varying medical conditions. The CSDAA is proud to support and endorse this very worthy cause.

I had the honour of attending Greg Mahoney's funeral service on January 6 in Brisbane. As expected there was a very large turnout of family, friends and work associates who paid their respects on the day. It was great to see the impact Greg had in the industry and the respect he earned throughout his distinguished career. To Jenny, Emma and James - days such as this are tough and you all showed tremendous courage and love providing Greg with a great service and farewell.

This year the CSDAA will strengthen its position financially as outstanding debts have been paid and we can now move forward with new initiatives and events. This year's mid-winter networking meeting will be held in Cairns FN Queensland in August. The CSDAA is now scheduling networking events to further develop friendships and networks within our industry.

We look forward to the roll out of the RPL and training in 2018. We are raising awareness within our industry and across the construction sector which shows that we are continuing to develop a quality training program resulting in certified competent operators.

I wish all members and contractors across Australia a safe and prosperous year in 2018 and hope to see you at our general meetings during the year.

Sincerely,

Jason Franken,
CSDAA President



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GREG MAHONEY

31 / 01 / 1958 - 31 / 12 / 2017

Greg Mahoney will be remembered as a loyal and loving husband to Jenny; father to James and Emma. Greg passed away peacefully at home surrounded by family in the early hours of December 31, 2017. Over the past two years Greg has been battling a debilitating illness which he finally succumbed to. It is never easy saying goodbye to those you love.

I am grateful to have known Greg, to have shared in his passion for our industry, and the friendships that have developed along the way. It was great to see the appreciation in Greg's eyes when he was awarded the CSDAA Life Time Membership in October 2017.

To say Greg had sawing and drilling in his blood is an understatement based on his time in the game. Greg's pathway into the sawing and drilling industry began when he completed his schooling at Rupertswood College at Sunbury, Victoria in 1974.

Greg tried his hand as an apprentice motor mechanic for a short time but decided against this career path. He joined Smith & Osbourne in Richmond, Victoria as a novice and never looked back. In 1982, Greg moved to the Gold Coast and commenced trading as a working director under the banner of Condroll Services.

Greg has influenced many operators during this time and has always shown loyalty and fairness to all that have worked with him. Hard work and fair play helped build Greg's career and reputation within our industry. On the flip side of this, Greg was never one to suffer fools - he called a spade a spade and if you didn't like it, so be it.

Greg's eight-year stint as president of the CSDAA is a testament to his passion for what he loved doing. Greg paved the way for developing and growing the association through trade shows and quarterly state meetings. His passion for work was only matched by his passion for water sports and the annual fishing trip in Darwin, Northern Territory. For those that knew Greg, and those that didn't, he was always there to lend a hand to anyone in need. These qualities are very rare to find and best describe Greg's persona in life.

As a present to himself for 40 years of service, Greg invested in a new set of wheels to get him around town. Not one to do things by halves, the 1965 Chevrolet had pride of place in Greg's garage. When Greg sent me the photo I said it only had one thing missing, and that was a floor saw on the back!

If there is an afterlife, I am sure Greg is cruising around the pearly gates in the big red Chevy - for a life well lived.

Rest in peace Greg and enjoy the next journey.

Jason Franken,

CSDAA President on behalf of the CSDAA Executive Committee and its members.



CSDAA AWARDS

THE GREG MAHONEY AWARD

There are few who leave an indelible impression on an industry, we were fortunate to have had the pleasure of knowing and working with Greg Mahoney.

The CSDAA Executive Committee unanimously agreed that an award should be created in Greg's honour to recognise the brightest and best within our industry; someone who represents the values and qualities that Greg epitomised.

The CSDAA recognises the strong impact Greg Mahoney had on the concrete sawing and drilling industry through his work as an operator; business owner; and through his years on the CSDAA committee as a past president and executive.

The Concrete Sawing and Drilling Association Executive Committee is pleased to announce the 2018 Greg Mahoney Award. The annual award will recognize individual achievement within the concrete sawing and drilling industry membership, as well as highlight the CSDAA's steadfast commitment to promoting the brightest and best as one of our core values. Nominations are open to any individual working for a CSDAA member company. The recipients' personal and/or professional work must serve as testament to the award criteria.

Award Criteria

The award will be presented to an Individual in recognition of the following:

- Commitment to the concrete sawing and drilling industry
- A consistent positive attitude to work and the industry
- An innovative approach to working in the industry
- Engagement with industry
- Having a strong focus on health and safety
- Demonstrating entrepreneurial flair

In addition to the criteria outlined above, the CSDAA Executive Committee will assess against the criteria and responses provided on the official nomination form. All nominations will be evaluated by the committee and will be managed by a third party.

Those nominating are encouraged to address all of the criteria in detail. Self-nominations are acceptable.

The nomination form will be sent out to all CSDAA members both operators and suppliers in March 2018. Nominations will need to be returned by June 30, 2018 for evaluation.

We would encourage members to nominate an outstanding individual within the industry: an employee; a co-worker; another member.

The winning recipient will be awarded the Greg Mahoney Award at the Mid-Winter Networking meeting in Cairns on August 10, 2018.

CSDAA Life Membership

The CSDAA Executive Committee will be seeking nominations for the CSDAA Life Membership Award.

This honour is in recognition of the commitment to the association and the support an individual has provided to increase the professionalism and advance the industry for all stakeholders.

Criteria

The award will be presented to an individual in recognition of the following:

- Years in the industry
- Service to the CSDAA
- Executive or advisory positions held on the CSDAA (or its predecessors)

The CSDAA Executive Committee will assess against the criteria and responses provided on the official nomination form. All nominations will be evaluated by the committee and will be managed by a third party.

Those nominating are encouraged to address all of the criteria in detail.

The nomination form will be sent out to all CSDAA members both operators and suppliers in March 2018. Nominations will need to be returned by June 30, 2018 for evaluation.

The winning recipient will be awarded the CSDAA Life Membership at the Mid-Winter Networking meeting in Cairns on August 10, 2018.



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RMIT

REDEVELOPMENT PROJECT

The \$220 million RMIT Redevelopment Project commenced approximately 18 months ago, with Advanced Sawing & Drilling Pty Ltd assisting the Project Managers: Lend Lease Building Pty Ltd and Contractor: Delta Demolition Pty Ltd with major structural cutting and coring works.

With the project nearing completion, Advanced Sawing was called upon in mid-December 2016 to look at a crane base that had to be removed over the Christmas holidays. Conventional demolition of the crane base was not possible due to the fact that internal walls had been placed around the base, making the use of large machinery impossible. The only access was via a double door just big enough to allow a fork lift through. The base measured 4m by 4m by 710mm deep, was heavily reinforced with 38mm reo bars placed 100mm apart in a typical cage formation, with four RSJ erection mounts placed in each corner.

After considering the lifting capacity of the fork lift, Advanced Sawing decided the base would need to be wire sawn horizontally in half then flush cut with the existing concrete floor. A road saw would then be placed on top of the base to cut it into 1m x 1m waste blocks.



Works commenced on 5th January and were completed by 10th January. Each wire saw cut took approximately 14 hours to complete, with the cutting and removal process being done over the next three days. After many discussions the Tyrolit Australia's SK-SD wire saw unit was chosen as the preferred machine, with a Husqvarna Australia's Diesel FS 4800 road saw used to cut the base into waste blocks. Due to the steel content, Tyrolit DWS***S wire was preferred for the application.

Even with the extremely short notice for commencement of the works required, especially being just before the Christmas break, Advanced Sawing was able to organize operators for the works and mobilise the equipment required. Works were completed in a timely manner, leaving our clients fully aware of our versatility and experience.



BLUESCOPE UPGRADE

WCE14 WIRE SAW

As part of the BlueScope steel's upgrade works in Wollongong NSW an approximate 7 metre square plinth needed to be removed to upgrade the conveyor system used for the steel works.

The Sydney based contractor was awarded the project and through thoughtful consideration Tyrolit Australia's WCE14 Wire Saw with Tyrolit DWM***-C wire was chosen.

The decision was made due to the wire saws unique modularity and manoeuvrability making it the perfect tool for the horizontal and vertical cuts needed to remove the plinth.

With careful positioning the first horizontal cut was made flush to the ground, once finished the second vertical cut was positioned and guided using timber beams to ensure the cut line was flush to the remaining concrete. The concrete block was then removed using the steel works 200 tonne crane. Due to the Wire Saws capabilities the job was completed smoothly, on time and in budget.



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BRISBANE AIRPORT

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Fast cutting for a contractor under pressure at Brisbane Airport. The works required 2 machines for a 995 x 550-600mm deep cut in 2.5 shifts of 6.5 hrs each strictly adhered to. Works were completed successfully due to quality engineering and diamond tools which are essential for these high pressure works.

2 machines were utilised to cut 89.9m x 570mm deep. Due to limited access, the cut time was 2 hours. The result being 0 – 89.9m, with less than 1.5mm over the distance of 89.9m, and less than 1.5mm deflection vertically at any one point of the given distance.



ROD LAVER ARENA

CONTRACTORS UNDER PRESSURE

The frantic rush into Christmas, whether you run a large company servicing the industrial-commercial sector or a smaller business that services the residential sector. We all seem to feel the strain of having too much work, not enough time to complete it and a shortage of labour. "It is true to say that the Christmas period can throw curve balls from all directions".

For one leading Victorian Concrete Cutting and Core Drilling contractor, the Rod Laver Arena Redevelopment Project did just that. The company was called upon by the Project Management Team at Lend Lease Pty Ltd and the challenge was set down.

The Problem?

A large number of structural cutting works were needed to be complete before the Summer Tennis season started. A walk-through of the project was conducted with Lend Lease explaining that they were working around the clock, running both day and night shift to meet their deadline and would need enough labour to work both shifts. A massive commitment and undertaking for any business whether large or small, especially leading into Christmas.

Two load-bearing walls needed to be core drilled, cut and removed, along with several large structural beams. The main tennis court needed to be cut and removed and over eight hundred small diameter core holes needed to be drilled.

The Victorian cutting contractor sat with the Lend Lease management team to work out a strategy and methodology of works.

The main court cutting works commenced first with two operators working over three nights, cutting more than 1.5 kilometres of 150mm deep waste blocks which were then removed to waste



bins with an excavator.

Whilst these works were being completed, the day shift of three operators were stitching drilling structural beams 800mm in width x 800mm deep x 1.5m long. Due to the access restrictions and water control measures that were needed, inverted drilling and conventional drilling were the only methods possible. Works were completed over a five day period with just of 90 x 125mm diameter core holes being drilled.

The last part of the works to be completed comprised of wall sawing and core drilling the load bearing walls (as can be seen in the pictures). Two operators worked during the day to prepare the walls for the operators that came in at night to wall saw the wall into waste blocks. These were moved to waste bins by the use of a Manitou forklift. Sixty core holes per penetration were drilled at 125mm diameter x 300mm deep. The 52m x 300mm deep wall sawing of each wall meant that 36 waste blocks were cut and removed.

With works complete and Lend Lease management extremely satisfied with the outcome and timing of the works, this Victorian concrete cutting company proved to the construction industry as a whole just how versatile, reliable and professional our industry has become. We operate specialised equipment, with well-trained operators and strive as an industry to better our standards on a daily basis.

Ours is a young industry and such a unique one. We should all be proud of the advancements and achievements we have made over such a short period of time.

Regards,

Proud member of the CSDAA

HTC AWARDS

TYROLIT



Tyrolit Australia has been awarded the No. 1 position as the HTC Global Partner of the Year 2016. Phil Rowden was there to accept the reward for Tyrolit Australia. The award is used to recognise the efforts of the Australian team in achieving the highest performance of sales throughout the world; beating leading countries such as Sweden/Norway and Switzerland. Tyrolit Australia is HTC's strongest distributor to date, having won the same award in 2006 and 2011.

TYROLIT AUSTRALIA AWARDED

On the 21st February 2017 all of Tyrolit Group gathered for the annual Global Sales Conference. As part of the conference Tyrolit's highest regarded members and sales teams were awarded and recognised for their achievements during the most recent financial year.

Phil Rowden travelled to Innsbruck, Austria to represent Tyrolit Australia. It was a momentous occasion for our sales team as we were awarded second place for worldwide sales achievement 2016. Awarded over many categories such as sales, EBIT (Earnings before interest & tax), stock and headcount and only having just been beaten by Austria, this marks a great achievement to Tyrolit Australia as we are one of the smaller economies in the Tyrolit Group.

With Tyrolit Australia's strongest sales team yet we can look forward to another stellar year.





STAY SAFE IN THE WET

AMPFIBIAN

Water and concrete cutting often go hand in hand, but with water comes some on-site safety concerns – and one Australian company is dedicated to doing something about it.

When it comes to minimising the presence of health-damaging dust created during concrete cutting, ‘the wetter the better’ is a good motto to go by, with research proving that wet cutting methods reduce dust by 85 per cent compared to dry cutting.* The problem is, when you mix water with a worksite that’s also home to electric-powered tools, plugs and extension leads, there’s a risk of electrocution. As well as the risk of serious injury this poses, it can also contribute to lost productivity and down-time related costs.

It’s why WorkSafe Victoria’s Industry Standard for safe concrete cutting and drilling recommends taking specific precautions around electricity, including installing power supplies fitted with residual current devices (RCDs) for use with portable electrical equipment, using waterproof connectors with extension leads and ensuring those leads are suspended off the ground. The good news is there’s a range of industrial power adaptors that combine all three of those features – and more.

Designed and manufactured by Ampfibian, a northern NSW-based Australian company dedicated to creating industry-tough products that combine safety and convenience, the range features seven power adaptors, including the MAX, the SP-15, SP-20, or SP-32, and the TP-10, TP-20 or TP-32. Each allows for the safe and legal connection of 10A or 15A loads to on-site power supplies.

Australian made – and made to comply with Australian standards – Ampfibian’s Industrial Series range of power

adaptors covers 10A to 50A, with single and three phase plug tops available. They have an H-Class rating (water and dust resistant to IP55 and IK08 impact rated), are UV stable and feature a fold-out hook for hanging to keep the adaptor and connected leads off the ground. Every adaptor is also equipped with an RCD which, along with the circuit breaker, is visible beneath a clear lid for easy inspection, to protect against electrocution. Plus, they feature automatic cleats to prevent accidental disconnection and a lockout tag on the RCD lid.

But the power adaptors aren’t the only industrial-standard products manufactured by Ampfibian that are invaluable on-site.

The X1 is a weatherproof extension cord lock that features a retaining mechanism to keep power cords firmly together, and patented seals to prevent electrocution in the wet. As the only extension lead container that’s suitable for trade and commercial use, it’s IK09 impact resistant, IP55 hose and weatherproof and designed to fit standard and heavy-duty 10A and 15A extension leads up to 12mm in diameter. It also features a recessed flip-out hook, making it easy to hang up out of the way.

Ampfibian’s Industrial Series power adaptors are sold in Blackwoods stores, nationally, or online at blackwoods.com.au. The MAX and X1 are available from hardware, outdoor and electrical retailers throughout Australia, or head to ampfibian.com.au to shop online.

*Shepherd S, Woskie S Controlling dust from concrete saw cutting. J Occup Environ Hyg 2013;10(2):64-70



Power and water don't mix, so don't let it

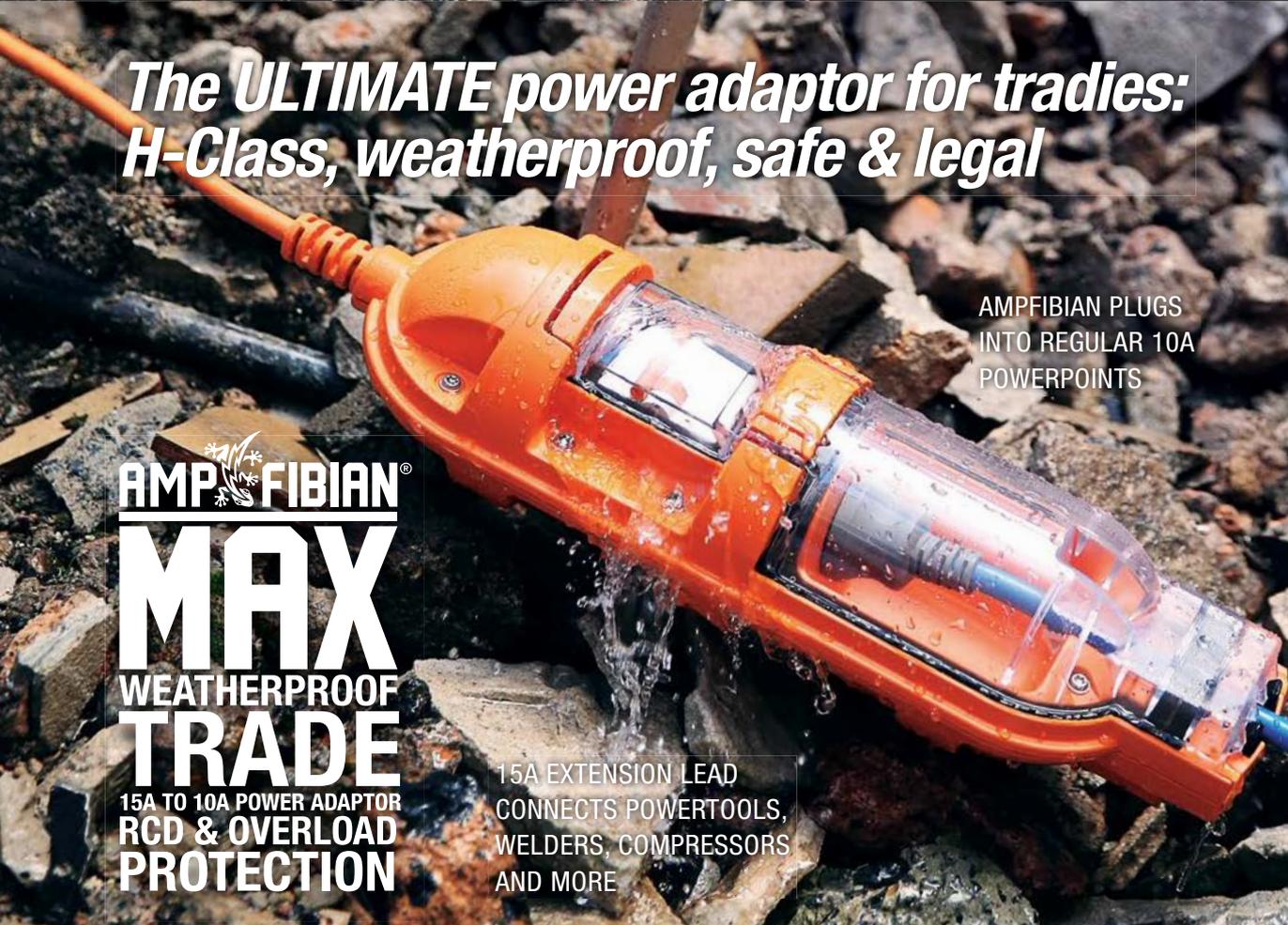


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ISSUE 12

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COURSE IN CONCRETE SAWING & DRILLING 22281VIC

RECOGNITION OF PRIOR LEARNING (RPL)

RPL assessments for the Course in Concrete Sawing and Drilling are now open. Applications and payment can be submitted via the new CSDAA web site at www.csdaa.com.au.

The CSDAA would like to congratulate the first three successful candidates: Jon Hart (WA); Paul Gamble (NSW); and Mark Horne (VIC); who have successfully attained the qualification issued by Wodonga Tafe and the CSDAA.

The CSDAA have another 12 applications which are being assessed, and we look forward to adding these candidates to the list of successful RPL assessments.

The CSDAA website includes 2 short video presentations so applicants and employers have a good understanding of the RPL process. Further information can be obtained by contacting Sandra at the CSDAA associations@aigroup.com.au.

On successful completion of the RPL assessment, each candidate is issued with a statement of attainment from Wodonga Tafe. Once the CSDAA has received confirmation, we will issue a CSDAA accredited Identification card.

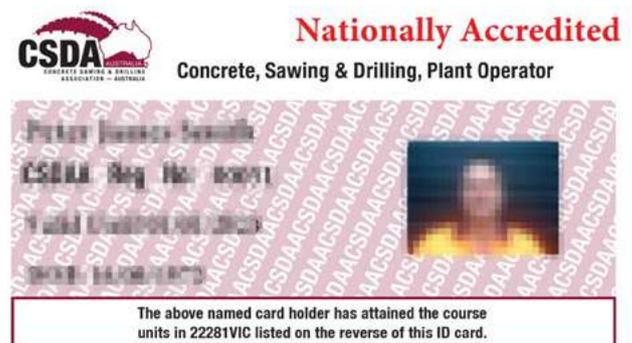
The ID card has been introduced to raise awareness of the new industry standards for operator competency and to further enhance the professional image of the sawing and drilling industry.

ID cards are current for 5 years and will need to be renewed after this time. Diagrams 1 & 2 show the certificate and ID card.



Some participants undertaking training.

Diagram 1



The authenticity of this card can be checked by telephoning: (03) 9867 0227

VU21676 Operate a saw to cut concrete and asphalt
 VU21677 Operate a diamond core drill system on floor and wall applications
 VU21678 Operate a hand held saw up to 600mm depth of concrete
 CPCCOWS200A1 Apply OHS requirements, policies and procedures in the construction industry
 CPCCCM2010B Work safety at heights

The named card holder has successfully attained the above named units for the course in Concrete, Sawing & Drilling 22281VIC being a national accredited qualification.

Mark Horne, who recently successfully completed the RPL said:

'I found the Course in Concrete Sawing and Drilling RPL an in-depth and thorough process. It was very rewarding and helpful, and I can foresee that this will help our industry. The course will ensure that operators are able to perform their duties safely, without incident and ensures compliance by meeting all the necessary requirements.'



Statement of Attainment

This is a statement that

[REDACTED]

has attained

| | |
|--------------|--|
| CPCCCM2010B | Work safely at heights |
| CPCCOHS2001A | Apply OHS requirements, policies and procedures in the construction industry |
| RIIWHS202D | Enter and work in confined spaces |
| TLILIC2005A | Licence to operate a boom-type elevating work platform (boom length 11 metres or more) |
| VU21676 | Operate a flat saw to cut concrete and asphalt |
| VU21677 | Operate a diamond core drill system on floor and wall applications |
| VU21678 | Operate a hand held saw up to 600-mm depth on concrete |
| VU21679 | Operate track mounted saw to cut concrete and steel |
| VU21680 | Operate diamond wire saw to cut concrete and steel |
| VU21681 | Operate a portable hydraulic cracking jaw system |
| VU21682 | Operate a hydraulic press sytem |
| VU21683 | Scan ground using ground penetrating radar (GPR) |
| VU21684 | Operate a mechanical robot for deconstruction work |

These competencies were attained in completion of

Course in Concrete Saws and Drilling

22281VIC

A. L. Jenvey

Chair - Wodonga TAFE Board
Allison Jenvey



M. Dixon

Chief Executive Officer
Mark Dixon

Date issued **[REDACTED]**

A Statement of Attainment is issued when an individual has completed one or more accredited units.
This Statement of Attainment is recognised within the Australian Qualifications Framework.

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Step 1:

Go to the new Concrete Sawing and Drilling Association website.

www.csdaa.com.au

Step 2 :

Click on the “Training” tab, scroll down to “How to apply for Recognition of Prior Learning (RPL)” and then click the “Apply Now” button.

How to apply for Recognition of Prior Learning (RPL)

Having a skilled and competent workforce has been proven to enhance safety and productivity within any business model. The CSDAA has developed a unique training matrix that provides flexibility for both new and senior industry operators. Employers that invest in training, whether a full course or RPL, will gain short and long-term benefits.

The CSDAA has partnered with Wodonga TAFE to deliver training including an RPL for concrete sawing and drilling operators. The course supports an employer's duty of care to provide structured training and industry awareness. Operator trends within the sawing and drilling industry can vary from one operator to another. By developing continuous learning and training initiatives, the CSDAA is well placed to assist the industry to manage and deliver these resources.

It is important that the industry invests in training to create a safer work environment and for the business to maximise productivity and efficiencies through effective training and development programs. The most important asset of every business is its operators, who are under their control and supervision.

Training and development is an instrument that empowers operators to be more productive and safer during work tasks. Therefore, having a competent and proficient workforce is beneficial for all involved, and can be the competitive advantage in a very competitive market.

If you are interested in becoming a qualified trainer and assessor with Wodonga TAFE to deliver the Recognition of Prior Learning (RPL) Program, please contact Mr Steve Lillis, Team leader – OHS, Warehousing and Civil, Wodonga TAFE at skills@wodongatafe.edu.au

You must provide a detailed CV and a copy of your current TAE 40110/40116 – Certificate IV in Training and Assessment. Your application will be assessed and you will be advised of the outcome within 20 working days.

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RPL in concrete sawing and drilling

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- To complete your application please download the Wodonga Tafe enrolment form. Once completed, please send back to us at: CSDAA P.O. Box 7622, Melbourne, VIC 3004 or send us a scanned copy of the document to associations@algroups.com.au.
- To register your interest in the course 'Concrete Sawing and Drilling - 22281' please call us on 1300 698 133.

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If you are interested in becoming a qualified trainer and assessor with Wodonga Tafe to deliver the Recognition of Prior Learning (RPL) Program, please contact Mr Steve Lillis, Team Leader – OHS, Warehousing and Civil, Wodonga Tafe at slillis@wodongatafe.edu.au .

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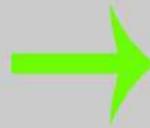


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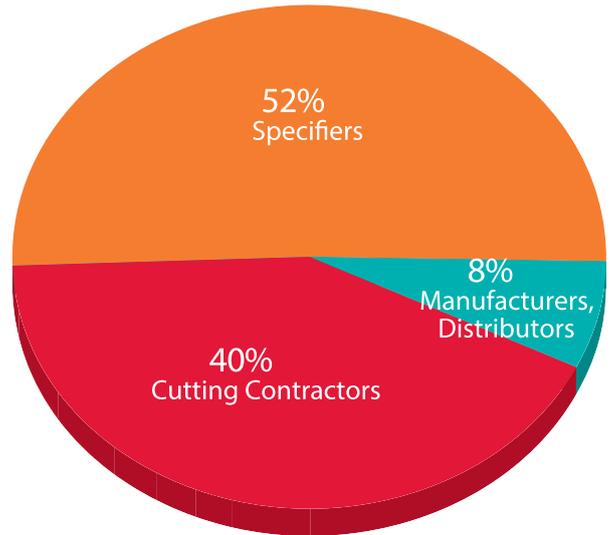
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CRYSTALLINE SILICA

DUST AWARENESS

All employers, operators and employees must be aware of the dangers and health risks associated with silica dust.

Everyone working with or around silica dust needs to be proactive and not reactive when working with this material. Whether you are the employer, operator or employee, you share an equal responsibility and duty of care when your work activities generate silica dust in the work place. Recent legislative changes in the United States (OSHA) are beginning to filter down to other countries, and Australia is soon to follow suit.

What is silica dust?

Crystalline silica (concrete dust) was around before concrete saws and drills were invented. As an industry, we have disregarded the health concerns given that silica dust is a carcinogen (cancer causing) and the effects on our lungs.

To prevent silica dust becoming airborne in most sawing and drilling activities, the most common practice is water suppression. Whilst this method meets the control measure for suppressing silica dust, it is only the start of the control and not the end.

Housekeeping is looked upon by many as another burden or someone else's problem. Unfortunately, when slurry is generated, not collected and left to dry on a work site it then becomes everyone's risk.

The Cancer Council, over the last 20 years, have issued detailed guidance notes and alerts on the dangers of the exposure to crystalline silica.

Work Safe authorities across Australia are currently working on a new guidance note specifically targeting the construction industry and focusing on best practice when generating and working near silica dust.

The CSDAA has been an active participant in these discussions and has provided information on behalf of the sawing and drilling industry. On the completion of the guidance note - inspectors will be actively enforcing compliance on all building sites.

Safe Work Method Statements (SWMS) will be inspected to ensure sufficient risk identification and control measures are in place for the activities being performed.

I would encourage all members and contractors to review their current work procedures and SWMS to ensure compliance and that your business is meeting your duty of care in accordance with the prescribed legislation, WHS Act or state OHS Act.

Jason Franken

CSDAA

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Occupational Cancer Risk Series

Silica dust



There may be hazards where you work that increase your risk of developing cancer. This fact sheet discusses occupational hazards related to silica dust.

Key messages

- Working with silica-containing materials can increase your risk of developing lung cancer.
- It's the dust you cannot see that can damage your lungs.
- Eliminate or reduce exposure to silica dust by using the recommended controls.
- Refer to [Silica – Technical Guide to Managing Exposure in the Workplace](#) for more information on how you can control silica dust hazards.

What is silica dust?

Crystalline silica is found in stone, rock, sand, gravel and clay, as well as products such as bricks, tiles, concrete and some plastic materials (Figure 1). When these materials are worked on, the silica is released as a fine dust. This dust is respirable crystalline silica (commonly called silica dust).

Silica dust and cancer

Silica dust is harmful when it's breathed into your lungs; it is 100 times smaller than a grain of sand, making it invisible, so you can be breathing it without knowing. This can lead to lung cancer, silicosis (irreversible stiffening of the lungs), chronic obstructive pulmonary disease and kidney disease.

Work jobs and exposure

In 2011 about 587,000 Australians were exposed to silica dust at their workplace. It is estimated that 5758 of these workers will develop lung cancer as a result. Those at greatest risk are miners, construction workers, farmers and engineers.

Effective controls

All Australian workplaces must follow work health and safety laws; however these vary slightly between states and territories, but the duty of care for employers and responsibilities of workers across Australia is similar:

- Employers are required to ensure the health and safety of their workers at their workplace.
- Within reason, workers must take care of their own health and safety, not negatively affect that of others and follow instruction and workplace health and safety policies.



Figure 1: Common silica-containing materials and job tasks where you may be exposed to silica dust

Eliminate or reduce exposure to hazards by following the [risk management process](#) and using the hierarchy of control (Figure 2). Workers should always be involved in the process to correctly identify hazards and control measures that suit the workplace and task. If suitable control measures are not in place, anyone working around silica dust has an increased risk of developing lung cancer.

You may be exposed to silica dust if your work involves:

| | | |
|---|---|--|
| Breaking, crushing, grinding or milling silica-containing material | Using or fitting some plastic composite products | Moving earth e.g. excavating, mining, quarrying, tilling or tunnelling |
| Sand blasting | Brick-laying | Sand casting |
| Paving, surfacing and cement finishing | Mineral-ore treating processes | Laying, maintaining or replacing ballast |
| Road construction | Demolition | Stonemasonry |
| Manufacture of glass, ceramics, concrete, tile, coke, metals, steel metal casting or mineral products | Drilling, cutting, chiselling or sanding silica-containing material | Handling, mixing or shovelling dry silica-containing material |

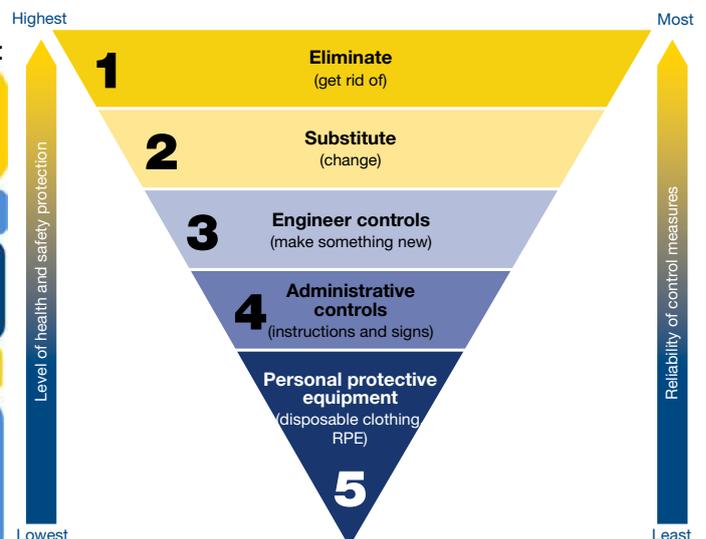


Figure 2: Hierarchy of risk control

Silica dust

Workers must be given information and training on:

- Control measures and how to use them (summarised in Table 1). The Health and Safety Executive in the U.K also have [fact sheets](#) that are specific to job tasks.
- Possible health effects of silica dust exposure.
- Health surveillance.

Air monitoring

The mandatory limit for silica dust exposure in Australia is 0.1mg/m³ averaged over an eight-hour day. The [ACGIH](#) have recommended the threshold limit value be 0.025mg/m³ over an eight-hour day. This limit was based on the prevention of lung cancer and silicosis. However, there is no safe level of silica dust exposure. Work Health, and Safety (WHS) [Regulation 50](#) states air monitoring (by an [occupational hygienist](#)) must be conducted every 12-18 months. This monitoring results can indicate if silica dust levels are within the limits. However, exposure levels in settings like construction sites are always changing and air sampling alone is not enough.



Figure 3: Breathing in more than the amount of silica dust shown in this picture, per day, means you have exceeded the exposure limit of 0.1 mg/m³. Source: [HSE](#).

Health surveillance

WHS Regulations state that [health monitoring](#) must be provided to workers who are continually working with silica dust and there is a significant risk to the worker's health. Safe Work Australia's [crystalline silica health monitoring guide](#) outlines how to monitor workers. Health monitoring can help to detect loss in lung function before permanent damage. Surveillance should be undertaken before job placement and at least every three years (yearly for [high-risk jobs](#)).

For any concerns related to control measures at your workplace, or for more information on the control of air quality contact:

- your workplace supervisor or management (if you're an employee)
- your workplace health and safety representative or union representative
- state and territory work health and safety regulators
- Safe Work Australia

How do I detect cancer early and reduce my cancer risk?

Prevent silica dust exposure by keeping the dust out of the air. If you think you have been exposed to a cancer causing agent it's important you speak with your doctor. To find out what you can do to help reduce cancer risk, contact Cancer Council on 13 11 20 or visit [cancer.org.au](#).

Table 1. Summary of control measures for silica dust

| ACTIVITY | CONTROL |
|---|--|
| Construction, planning and design | For example, by: <ul style="list-style-type: none"> • using other materials (e.g. autoclaved aerated concrete) in place of concrete masonry • planning buildings with pre-built recesses for plumbing, gas and electric wiring • ordering the right size materials • getting materials cut to size off-site |
| Select the correct equipment | <ul style="list-style-type: none"> • Use fibre cement sheet shears instead of circular saws. • Ensure the rock-drilling machines have dust suppression features. • Vehicles (i.e. tractors, excavators and bulldozers) should have a dust collection system and an air conditioned cab with a filtered air supply. Filters should be cleaned and maintained regularly. |
| Use workshop ventilation | Have enclosures or hoods and local exhaust ventilation (LEV) to remove the dust at the point it's produced. |
| Abrasive blasting | WHS Regulations do not allow abrasives containing silica. Use metallic shot, slag products (ilmenite, garnet or staurolite) instead of sand. During blasting, containment methods such as blast-cleaning machines, cabinets and LEV should be used. |
| Ensure tools have on-tool extraction | Use LEV that fits directly onto hand-held machines. This is the most effective way of controlling dust. |
| Use water suppression when possible | Water suppression should be used whenever possible; especially when LEV is not suitable. Water should be used through non-electric tools to wet dust down at the point of dust generation. For example, water should be provided to the blade when using saws; just wetting the material is not enough. Ensure equipment and work areas are cleaned regularly with water. Use water spray or rubber curtains around conveyor transfer points. |
| Know how to use your respiratory protective equipment (RPE) correctly | <ul style="list-style-type: none"> • No RPE can prevent all silica dust from being breathed in. So, RPE should be used in combination with other controls. • RPE cannot protect you if it doesn't fit properly. Employers should have workers fit tested and trained in their use and maintenance. This is even more important if you have facial hair. • It is important to choose the right RPE for the job; use the AS/NZS 1715:2009 standards or watch this HSE video for guidance on the selection and use of RPE. |
| Quit smoking | Smoking reduces the lung's ability to clear dust and increases the risk of lung cancer. Potentially exposed workers should quit. |
| Wear the correct PPE | If possible wear disposable clothing at work. Before you leave work, shower and change into clean clothes. Do not take your dusty clothes home to wash. |
| Reduce exposure using administrative controls | Display warning signs if tasks create silica dust. Rotate staff to limit the time they are exposed. Locate silica dust work outdoors, away from other workers who are not required for that task. |
| Clean-up correctly | DO NOT 'clean up' with compressed air or by dry sweeping. Dust should be removed using an industrial HEPA (high-efficiency particulate air) filter vacuum, which should be cleaned and maintained regularly. |

For more information visit the 'useful websites' listed on [cancer.org.au/workcancer/silica-dust](#)

INDUSTRY DATES

2018

MARCH

6 - 10 **CSDA Tech Fair**
Maui

APRIL

27 **CSDAA General Meeting**
Ai Group, 51 Walker St, North Sydney NSW

AUGUST

8 - 11 **Mid-Winter Networking Meeting & Executive Meeting**
(GM August 10) Cairns, Queensland

The Inaugural Greg Mahoney Award and the CSDAA Life Membership will be presented. The event includes CSDAA supported activities and is open for all members.

Non-members attending will attract a fee.

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2019

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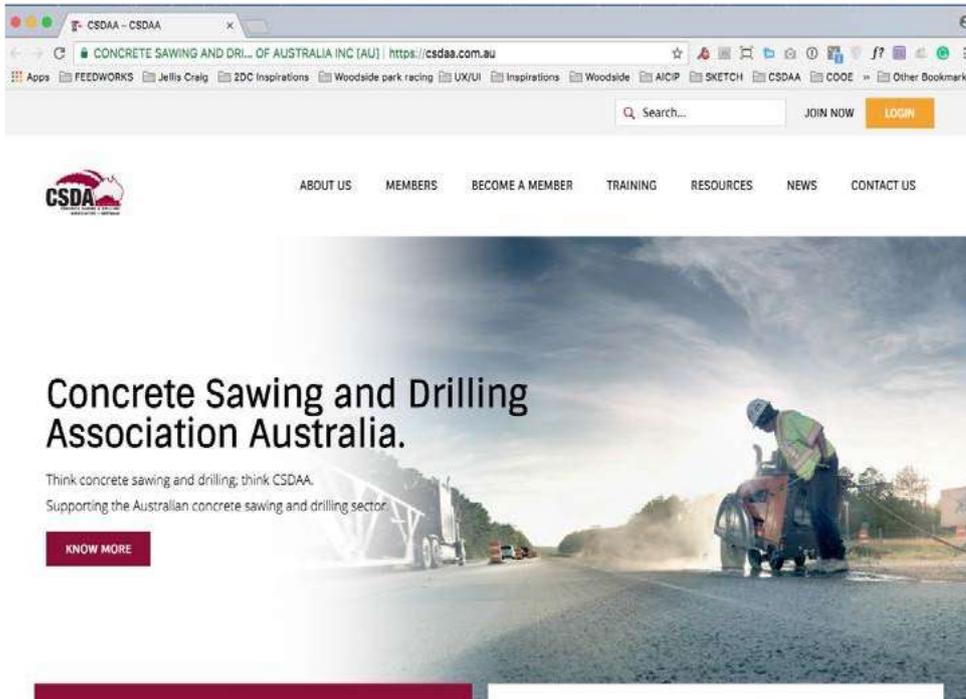
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- Access to the CSDAA electronic manual formatted to your company

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\$900
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- Subscription to newsletter with free logo space
- Banner and link to your web site**
- Free subscription to CSDAA magazine
- Invitation to quarterly general meetings

**The CSDAA will include an advertising banner and a link to your company website. This does not include artwork; members will provide banners in the required format.

Step 3:

Once you submit your application, it will be sent off to be approved for membership by the CSDAA Executive Committee. Please be aware that the approval process can take up to two weeks. Any queries, please contact the CSDAA on: 03 9867 0227.

Members - CSDAA

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- ▶ Handles water AND slurry, oils and machining coolants
- ▶ Is capable of pumping liquids out 10m vertically or 200m horizontally
- ▶ Can handle suction whilst pumping out liquids simultaneously

Recommended for all concrete cutting applications, try one out for yourself today. Demonstrations are available now by contacting your local Husqvarna Representative.

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CSDAA MEMBER LISTING

NEW SOUTH WALES

A-1 Concrete Services Pty Ltd
 Arrow Concrete Cutting Pty Ltd
 B & G Concrete Sawing & Drilling
 Concut (NSW) Pty Ltd
 Decotec Pty Ltd
 DGW Concrete Cutting Pty Ltd
 Diacore
 Envirocut Pty Ltd
 Ezi-Cut and Cure
 Forefront Services
 Historic Building Solutions (Australasia) Pty Ltd
 Mastercut Concrete Australia
 Matt Dalley Concrete Cuttings
 Northwest Concrete Sawing & Drilling
 Nova Cut Concrete Sawing P/L
 Online Concrete Cutting Services Pty Ltd
 Oz Cut Concrete Cutting Services Pty Ltd
 Perfect Concrete Care
 Ripa Concrete Cutting Pty Ltd
 Roosta Concreting
 Stocks & Hogan Core & Saw
 Sure-Cut
 The Chamakos Group Pty Ltd (t/as Arthur's Concrete Cutting)

NORTHERN TERRITORY

Supercity Concrete Cutting Pty NT Ltd

QUEENSLAND

Ablecut Concrete Cutting & Coring
 ACCU-Cut
 Allcut Concrete Cutting (QLD) Pty Ltd
 Allied Concrete Cutting & Drilling Pty Ltd
 Complete Concrete Cutting QLD
 Condrill Services Pty Ltd
 Consaw Services
 Cut and Core QLD
 Elliott & Fyfe Concrete Cutting Service
 Fast Cut QLD Pty Ltd
 Pearson Concrete & Asphalt Sawing & Drilling
 Procut Concrete Cutting and Drilling Pty Ltd
 QLD Concrete Drilling and Sawing Pty Ltd
 Razor Cut Concrete Cutting & Drilling Pty Ltd
 Southern Cross Concrete Cutting
 Southside Concrete Sawing and Drilling
 Sunshine Coast Concrete and Asphalt

Townsville Concrete Sawing & Core Drilling P/L

SOUTH AUSTRALIA

BK Innovative Concrete Services P/L
 Breakaway Concrete Cutting & Drilling (SA) Pty Ltd
 C & N Concrete Sawing and Drilling Pty Ltd
 Supercore

TASMANIA

Concrete Sawing and Drilling Tasmania
 E. Nelson (TAS) P/L
 MPH Contracting
 Schouten Concrete Constructions Pty Ltd
 Southern Concrete Cutting Pty Ltd
 Van Dieman Diamond

VICTORIA

Advanced Sawing & Drilling Pty Ltd
 All City Sawing & Drilling
 Auscut
 Breakaway Concrete Cutting & Pty Ltd
 Concut (VIC) Pty Ltd
 Conquest Cutting & Drilling
 Cut and Clean (L.M. and L.M. Knight Pty Ltd)
 Cut and Core VIC
 Cutting Force
 Kustom Cut Concrete Cutting and Drilling Pty Ltd
 LJ Diamond Tools Australia
 Melbourne Concrete Cutting Pty Ltd
 Melbourne Sawing and Drilling P/L
 Metro Sawing and Drilling
 Mi-Cut Australia P/L
 Power Concrete Cutting Pty Ltd
 Prestige Saw Pty Ltd
 Smith & Osborne (Megasaw) Pty Ltd
 Supercity Concrete Cutting Pty Ltd
 Vic Sawing and Drilling
 Wylies Concrete Cutting

WESTERN AUSTRALIA

Advance Drilling and Sawing
 Concut (WA) Pty Ltd
 Cut N Break Pty Ltd
 Cutwell Concrete Sawing & Drilling
 Diamond Cut Concrete

Maintenance and Construction Services Australia

South West Concrete Cutting & Drilling Australia.

Unique Cutting

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