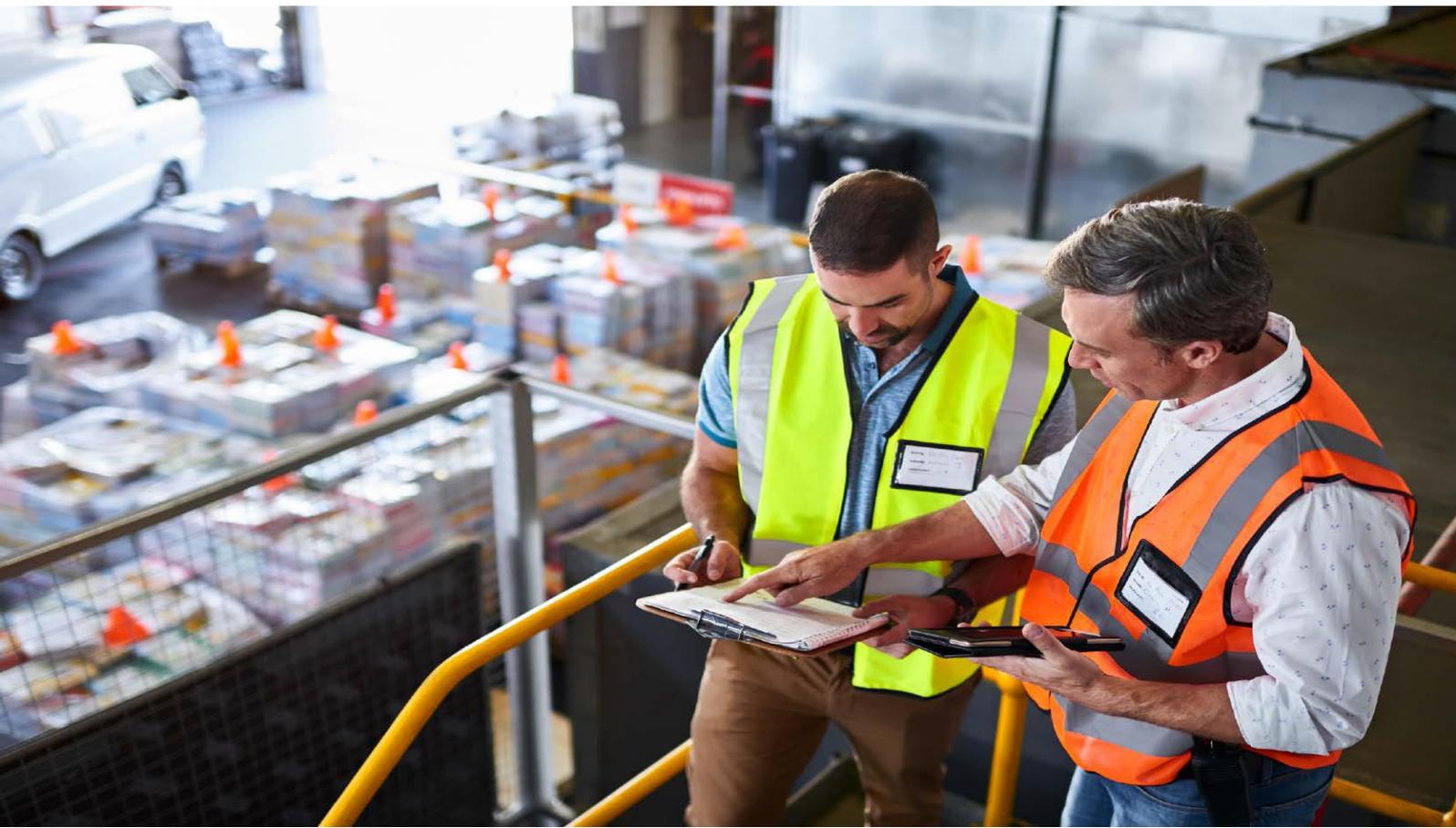


PROCESS MANUFACTURING, RECREATIONAL VEHICLE AND LABORATORY IRC

High Pressure Water Jetting
2019 Case for Change





www.ibsa.org.au
manufacturing@ibsa.org.au
(03) 9815 709
Level 11, 176 Wellington Parade
East Melbourne, Victoria, 300

Process Manufacturing, Recreational Vehicle and Laboratory Industry Reference Committee

High Pressure Water Jetting Case for Change: November 2019

This 2019 High Pressure Water Jetting Case for Change has been prepared on behalf of the Process Manufacturing, Recreational Vehicle and Laboratory Industry Reference Committee for submission to the Australian Industry and Skills Committee (AISC).

This document has been produced with the assistance of funding provided by the Commonwealth Government through the Department of Education and Training.

Administrative Information

Name of Industry Reference Committee (IRC):

Process Manufacturing, Recreational Vehicle and Laboratory

Name of Skills Service Organisation (SSO):

Innovation and Business Skills Australia (IBSA Manufacturing)

About the Industry Reference Committee

The Process Manufacturing, Recreational Vehicle and Laboratory Industry Reference Committee comprises seven members and was constituted in 2017.

The 2019 Case for Change was reviewed and approved by the membership below:

Mr Keith Monaghan (Chair)	Mr Nigel Haywood
Mr Ian Curry	Mr Han Michel
Mr Stuart Lamont	Mr Grahame Aston
Ms Leah Simmons	

About this Case for Change

IBSA Manufacturing has undertaken extensive consultation, research and analysis in support of this High Pressure Water Jetting Case for Change. A detailed desktop analysis included the review of training package content, content from other training packages and the Training Package Development and Endorsement Process Policy. As a result, the key objective of this proposal is to:

- update units of competency to reflect current and emerging workplace needs
- review skill sets to ensure selected units of competency are appropriate
- improve quality in line with the Standards for Training Packages providing improved clarity for RTOs, especially around assessment requirements.

Industry Reference Committee Signoff

This 2019 High Pressure Water Jetting Case for Change was agreed as the result of a properly constituted IRC decision and was approved by:

IRC Chair: Mr Keith Monaghan

Date: November 2019

High Pressure Water Jetting Case for Change

Process Manufacturing, Recreational Vehicle and Laboratory IRC

MSM Manufacturing Training Package

Contact details: Mr Keith Monaghan (Chair)

Date submitted to Department of Education and Training: November 2019

Description

The Case for Change is to review and update the following training products related to high pressure water jetting from the MSM Manufacturing Training Package:

- four units of competency
 - MSMWJ201 Use high pressure water jetting equipment
 - MSMWJ301 Operate a high pressure water jetting system
 - MSMWJ302 Operator a drain cleaning system
 - MSMWJ303 Operate a vacuum leading system
 - four skill sets
 - MSMSS00003 Use high pressure water jetting equipment
 - MSMSS00004 Operate a high pressure water jetting system
 - MSMSS00005 Operator a drain cleaning system
 - MSMSS00006 Operate a vacuum leading system.
-

Rationale

High pressure water jetting is a process using a stream of pressurised water to remove material, coatings or contamination and debris from the surface of a work piece or material substrate. High pressure water jetting systems are either:

- Class A: The output capacity produced by the system is between 800 bar litres/minute and 5,600 bar litres/minute.
- Class B: the output capacity produced by the system exceeds 5,600 bar litres/minute.

High pressure water jetting is a dangerous activity associated with a number of hazards and risks such as the water jet piercing the skin, being hit by flying debris and exposure to noise. Other hazards associated with high pressure water jetting include working in confined spaces, fall hazards, respiratory and eye hazards, electric shock and potential exposure to hazardous chemicals.

Safe Work Australia has developed guidance on how to manage health and safety risks associated with high pressure water jetting operations. It aims to provide users of water jetting systems with guidance on safe operating practices to protect workers and other people who are near water jetting operations. Part of this guide specifies that '*Workers must be trained and have the appropriate skills to carry out a particular task safely*', and that '*Workers who operate high pressure water jetting equipment should maintain their competency*', which can be demonstrated by undertaking refresher training.

The MSMWJ coded units from the MSM Manufacturing Training Package are generally the accepted training which meets the training, and refresher, requirements of Safe Work Australia. The Australasian High Pressure Water Jetting Association (Ausjet), the peak National industrial services industry representative body with members across Australia and Internationally, suggest that refresher training be completed every two years.

There are also Australian Standards for high pressure water jetting:

- AS/NZS 4233 High Pressure Water Jetting Systems Part 1 Guidelines for Safe Operation and Maintenance
- AS/NZS 4233 High Pressure Water Jetting Systems Part 2 Construction and Performance

Ausjet have been instrumental in the development and ongoing review of safety standards within the industry and have recently sent a proposal for minor revisions to the standards.

Considering the above, demand for the high pressure water jetting training package components remains consistently high as shown by enrolment data:

Unit of competency	Enrolments			
	2015	2016	2017	2018
MSMWJ201 Use high pressure water jetting equipment*	785	655	681	809
MSMWJ301 Operate a high pressure water jetting system*	861	579	746	868
MSMWJ302 Operate a drain cleaning system^			284	612
MSMWJ303 Operate a vacuum loading system^		70	148	190

Source: NCVER

* Includes enrolments from superseded units MSAPMWJ201A Use high pressure water jetting equipment and MSMPMWJ301A Operate a high pressure water jetting systems

^ New units released in December 2015

Skill sets	Enrolments			
	2015	2016	2017	2018
MSMSS00003 Use high pressure water jetting equipment	783	665	685	798
MSMSS00004 Operate a high pressure water jetting system	874	585	734	864
MSMSS00005 Operator a drain cleaning system	-	-	297	622
MSMSS00006 Operate a vacuum leading system	-	70	147	201

Source: NCVER

Additional enrolment data by state/territory can be found in Attachment A.

Recent consultation with Ausjet members has identified the units of competency should be updated to ensure advances in operation and maintenance as well as new technologies are appropriately reflected, and the units continue to reflect industry practice. It is proposed the following should be a focus of a review project to update training package components:

- clearly specify industry's expectation of performance in the performance criteria – there is the opportunity to remove ambiguity and clearly define industry's intent.
- add new content to reflect changes in technology – advances in operation and maintenance as well as new technologies have occurred which will require minor revisions.
- remove incorrect and out of date references – there are a number of references to equipment which are no longer used within the industry.
- clarify performance evidence to ensure consistent interpretation – there is some confusion within industry regarding the wording of the performance evidence the assessment and how the assessment should take place. Industry suggest the intent of the performance evidence is not being properly conducted and the existing wording is a barrier to implementation.
- review skill sets – some skill sets are no longer listing the current version of the listed units of competency. Skill sets will be reviewed to confirm units remain appropriate
- strengthen the alignment with safety and Australian standards.

The above is consistent with feedback that IBSA has received. In October 2018 IBSA contacted the Australian Government Department of Education regarding a number of issues identified by industry that related to the high pressure water jetting components which required rectification. These are yet to resolved suggesting an urgent review of the identified training package components is needed. An update to the units of competency, and associated skill sets, will ensure components are being implemented correctly and continue to meet safety requirements. Preliminary review has also identified there could be improved alignment to 2012 Standards for Training Packages, this includes removal of duplication and superfluous information resulting in a better-defined units that capture the competency requirements, and strengthens the unit intent.

Impact of Change

Industry/employers

Access to a skilled workforce is industry's imperative. The key goal of proposed changes is to provide training products that support this objective by ensuring that training package components reflect contemporary skill needs, safety requirements and work practices.

Registered training organisations

Any change to units of competency and qualifications creates flow-on impacts and costs for RTOs in relation to administrative systems, training resources and assessment materials. A positive impact for all RTOs will be improved

clarity, particularly around assessment expectations and reduction of duplication within and across units of competency. Also, assurance that updated training package components are compliant with relevant standards and safe work practices.

Learners

Learners will benefit from improved clarity and updated training products that industry confirms reflect the current skills and knowledge required for work in the sector. This can only improve their readiness for work.

Risks of not implementing the changes

Risks of not implementing the proposed changes are as follows:

- Training package content will not fully reflect the current and emerging skill needs in industry.
- Training package content will not reflect current safety standards and work practices.
- Superfluous information and lack of clarity will unnecessarily remain in the units of competency training system.
- Skill sets will remain out of date and not reflect current units of competency.

Industry Support for Change

The submission of this Case for Change was agreed as the result of a properly constituted Process Manufacturing, Recreational Vehicle and Laboratory Industry Reference Committee decision. A letter of support can be found in Attachment B.

A review of the training products is also supported by the Australasian High Pressure Water Jetting Association, the peak national industrial services industry representative body, as well as a number of employers in the industry. Additional letters of support from industry stakeholders can be found in Attachment C.

Consultation Plan

Key individuals and employers will be consulted throughout this project, this includes:

- the industry association and its employer member base
 - state and territory training advisory bodies
 - union representatives
 - other Industry Reference Committees and their Skills Service Organisations (SSOs) where skills commonality and/or crossovers in Training Package content were identified
 - registered training organisations and teachers involved in the delivery of impacted qualifications.
-

*Ministers’
Priorities
Addressed*

This Case for Change addresses the following Ministers’ Priorities:

- **removing obsolete and superfluous qualifications from the training system to make it easier for consumers to find the training relevant to their needs;**
 - this Case for Change does not include the review of any qualifications
- **making more information available about industry’s expectations of training delivery to training providers to improve their delivery and to consumers to enable them to make more informed course choices;**
 - information regarding industry’s expectations on implementation will be made available in the Companion Volume.
 - updates to the Companion Volume after this work will provide training providers with clarity on vocational outcomes and pathways and discussions with industry will provide the opportunity to promote these vocational pathways.
- **ensuring the training system better supports individuals to move easily from one related occupation to another;**
 - the skill sets to be redeveloped will be accessible to a wide range of occupations and industries, supporting transferability of skills and mobility of skilled workers both into and within the industry.
- **improving the efficiency of the training system by creating units that can be owned and used by multiple industry sectors and housing these units in a ‘work and participation bank’;**
 - cross sector units will be imported into skill sets where appropriate.
- **fostering greater recognition of skill sets**
 - redevelopment of four existing skill sets to ensure skills match industry needs and promote portability across the industry.

*Potential
Outcomes*

Outcomes of this work is for better industry relevant and defined training package components (four units of competency and four skill sets) for the high pressure water jetting industry. Updated components will meet safety requirements and allow for more consistent implementation that is in line with Australian Standards for high pressure water jetting.

Scope of Project

Timing

Estimated Project Duration: 12 months

If approved, the project would be undertaken in stages.

1. Initial research and analysis (January – March 2020)
Establishment of a TAC to validate project scope and undertake a job role functional analysis.
2. Draft 1 and public consultation (April – June 2020)
Develop first draft of training package components for feedback.

3. Draft 2 and public consultation (July – September 2020)
Respond to feedback and develop second draft of training package components.
4. Approval process (October – December 2020)
Adjust training package components in response to further feedback and seek approval from respective committees and endorsement from state training authorities.
5. Submission to Department (December 2020)
Submit to the Department of Education and Training for AISC approval.

Anticipated Start Date: January 2020

Anticipated Completion Date: Case for Endorsement to be submitted in December 2020

Training Package

MSM Manufacturing Training Package

Qualifications

This Case for Change does not include the review of any qualifications.

Skill Sets

A total of four skill sets will be reviewed and updated as part of this project:

- MSMSS00003 Use high pressure water jetting equipment
- MSMSS00004 Operate a high pressure water jetting system
- MSMSS00005 Operator a drain cleaning system
- MSMSS00006 Operate a vacuum leading system.

Units of Competency

A total of four native units of competency are to be reviewed for application and updated if needed as part of this project.

- MSMWJ201 Use high pressure water jetting equipment
- MSMWJ301 Operate a high pressure water jetting system
- MSMWJ302 Operator a drain cleaning system
- MSMWJ303 Operate a vacuum leading system

The following units will be assessed for suitability for inclusion in the Skill Sets:

- MSMWHS110 Follow emergency response procedures
 - MSMWHS200 Work safely
 - MSMPER200 Work in accordance with an issued permit
 - MEM09002B Interpret technical drawing
-

Detail on training components proposed for work for 2020.

Qualification / unit / Skillset	Code and Title	Previous change (endorsement date)	Previous work (transition / update / establishment)	Work (new / update / deletion)	Entry level / trade / post-trade qualification	Expected date for endorsement
Unit	MSMWJ201 Use high pressure water jetting equipment	15/Dec/2015	Transition	Update	Entry level	December 2020
Unit	MSMWJ301 Operate a high pressure water jetting system	15/Dec/2015	Transition	Update	Entry level	December 2020
Unit	MSMWJ302 Operator a drain cleaning system	15/Dec/2015	Transition	Update	Entry level	December 2020
Unit	MSMWJ303 Operate a vacuum leading system	15/Dec/2015	Transition	Update	Entry level	December 2020
Skill Set	MSMSS00003 Use high pressure water jetting equipment	15/Dec/2015	Transition	Update	Entry level	December 2020
Skill Set	MSMSS00004 Operate a high pressure water jetting system	15/Dec/2015	Transition	Update	Entry level	December 2020
Skill Set	MSMSS00005 Operator a drain cleaning system	22/Oct/2018	Update	Update	Entry level	December 2020
Skill Set	MSMSS00006 Operate a vacuum leading system	22/Oct/2018	Update	Update	Entry level	December 2020

Appendix A: Skill Set enrolments by State/Territory

	2015	2016	2017	2018
MSMSS00003 Use High Pressure Water Jetting Equipment	783	665	685	798
New South Wales	22	-	145	147
Victoria	19	11	47	63
Queensland	31	152	105	203
Western Australia	667	502	358	333
South Australia	37	-	27	27
Tasmania	-	-	-	16
Northern Territory	7	-	3	6
Other	-	-	-	3
MSMSS00004 Operate a High Pressure Water Jetting System	874	585	734	864
New South Wales	21	3	253	445
Victoria	69	55	114	64
Queensland	96	95	125	140
Western Australia	603	432	182	171
South Australia	56	-	42	18
Tasmania	13	-	9	26
Northern Territory	16	-	9	-
MSMSS00005 - Operate a Drain Cleaning System	-	-	297	622
New South Wales	-	-	268	486
Queensland	-	-	3	2
Western Australia	-	-	26	134
MSMSS00006 Operate a vacuum loading system	-	70	147	201
New South Wales	-	60	101	169
Victoria	-	-	32	17
Queensland	-	10	12	9
Western Australia	-	-	2	3
South Australia	-	-	-	3
Grand Total	1,657	1,320	1,863	2,485

Source: NCVET

Appendix B: Process Manufacturing, Recreational Vehicle and Laboratory Industry Reference Committee letter of support



ABN 74 109 600 302
t +61 3 9815 7000
f +61 3 9815 7001
e reception@ibsa.org.au
w www.ibsa.org.au

Level 11 176 Wellington Pde East Melbourne Victoria AUSTRALIA 3002

12 November 2019

Dear Australian Industry and Skills Committee,

As the Chair of the Process Manufacturing, Recreational Vehicles and Laboratory IRC (IRC), I write on behalf of the IRC to support the Water Jetting Case for Change which includes the review and update of components in the MSM Manufacturing Training Package.

A fully constituted IRC approved the Case for Change for submission to the Australian Industry and Skills Committee for approval.

Regards

A handwritten signature in blue ink, appearing to read 'Keith Monaghan', is written over a light blue horizontal line.

Keith Monaghan
Chair, Process Manufacturing, Recreational Vehicle and Laboratory IRC

Appendix C: Additional letters of support from industry stakeholders

See following pages for letters of support



**Australasian High Pressure
Water Jetting Association Ltd**



Address: PO Box 179, Thirroul NSW 2515

Email: support@ausjetinc.com.au

Phone: 0430 391 166

Website: ausjetinc.com.au

5th August 2019

Mr. Mark Shaddock
Industry Manager
IBSA
Level 11
176 Wellington Pde
East Melbourne VIC 3002

**Re Letter of Support for the Review of Water Jetting Training
Package Components**

Mark

The Australasian High Pressure Water Jetting Association Ltd (Ausjet) fully supports a review of the training package components for high pressure water jetting, drain cleaning and vacuum loading.

Ausjet have recently sent through to Standards Australia a proposal for minor revisions to AS/NZS 4233.1 High pressure water jetting systems Safe operation and maintenance and AS/NZS 4233.2 High pressure water jetting systems Construction and performance.

During the review that Ausjet members conducted it was identified that there were advances in operation and maintenance as well as new technologies that have occurred hence the need for minor revisions.

With that in mind it is apt that the suite of Units of Competencies below relating to high pressure water jetting and ancillary operations could require a review to determine if any changes need to be made that will be in line with the revised water jetting standards.



**Australasian High Pressure
Water Jetting Association Ltd**



Units of Competency

MSMWJ201 Use high pressure water jetting equipment
MSMWJ301 Operate a high pressure water jetting system
MSMWJ302 Operator a drain cleaning system
MSMWJ303 Operate a vacuum leading system

Skill Sets

MSMSS00003 Use high pressure water jetting equipment
MSMSS00004 Operate a high pressure water jetting system
MSMSS00005 Operator a drain cleaning system
MSMSS00006 Operate a vacuum leading system

In conclusion the Australasian High Pressure Water Jetting Association Ltd fully supports the Review of Water Jetting Training Package Components.

Regards

Peter Jones
Director Ausjet



15th October 2019

IBSA Manufacturing
Mark Shaddock
Industry Engagement Partner
Level 11, 176 Wellington Pde
East Melbourne, VIC 3002

Dear Mark,

I am writing to provide a letter of support for the Water Jetting MSM Manufacturing Training Package Case for Change.

Altrad employ and train HPWJ operatives as part of our core business – operating throughout Australia and the Asia Pacific region.

A review of the MSMWJ units of competency, and associated skill sets, in the MSM Manufacturing Training Package is urgently required to ensure skills and knowledge continue to reflect industry practice and meet safety requirements. There has been a number of advances in the operation and maintenance of water jetting systems, as well as new technologies that have occurred which should be included in content.

Several further changes, especially to the assessment requirements, are required to provide clarity ensuring units are being interpreted consistently and implemented in line with Australian Standards for high pressure water jetting.

We believe there is great benefit in reviewing these training package components and look forward to working with IBSA Manufacturing on this project.

Regards

Stewart Rizzi

ALTRAD Skills Centre Manager

Den-Jet Australia Pty Ltd.

ABN: 75 166 708 265



Wingfield, October 17, 2019

IBSA Manufacturing
Mark Shaddock
Industry Engagement Partner
Level 11, 176 Wellington Pde
East Melbourne, VIC 3002

Dear Mark,

I am writing to provide a letter of support for the Water Jetting MSM Manufacturing Training Package Case for Change.

DEN-JET is the manufacture of Electric and Diesel driven heavy duty Water Blasters that are available in range from 25 Hp to 700 Hp, and cover a vast range of applications, such as Corrosion Control, Pipe Descaling, Pipe Pressure Testing, Cleaning of Heat Exchangers, Concrete Demolition and even Underwater Blasting.

A review of the MSMWJ units of competency, and associated skill sets, in the MSM Manufacturing Training Package is urgently required to ensure skills and knowledge continue to reflect industry practice and meet safety requirements. There has been a number of advances in the operation and maintenance of water jetting systems, as well as new technologies that have occurred which should be included in content.

Several further changes, especially to the assessment requirements, are required to provide clarity ensuring units are being interpreted consistently and implemented in line with Australian Standards for high pressure water jetting.

We believe there is great benefit in reviewing these training package components and look forward to working with IBSA Manufacturing on this project

Best regards

Martin Jensen
Managing Director

Den-Jet Australia Pty Ltd.

24-28 Bowyer Road, Wingfield SA 5013

Phone +61 8 2685398 - Mail; mxj@denjet.com

18 October 2019

Level 4, 441 St Kilda Road
Melbourne VIC 3004
Australia
P +61 3 8397 5100
F +61 3 8397 5180

IBSA Manufacturing
Mark Shaddock
Industry Engagement Partner
Level 11, 176 Wellington Pde
East Melbourne, VIC 3002

Dear Mark,

I am writing on behalf of Cleanaway, to provide a letter of support for the Water Jetting MSM Manufacturing Training Package Case for Change.

Cleanaway Industrial Services provides a range of specialised services to more than 2,000 customers in the infrastructure and resources markets, which includes drain cleaning, non-destructive digging, vacuuming loading and high-pressure cleaning. Last financial year Cleanaway's Industrial Services division had a turnover of \$340 Million and employed over 1100 operators performing the above mentioned.

A review of the MSMWJ units of competency, and associated skill sets, in the MSM Manufacturing Training Package is urgently required to ensure skills and knowledge continue to reflect industry practice and meet safety requirements. There has been a number of advances in the operation and maintenance of water jetting systems, as well as new technologies that have occurred which should be included in the course content.

Several further changes, especially to the assessment requirements, are required to provide clarity ensuring units are being interpreted consistently and implemented in line with Australian Standards for high pressure water jetting.

We believe there is great benefit in reviewing these training package components and look forward to working with IBSA Manufacturing on this project.

Regards,



Scott Russell
General Manager- Industrial Services
Cleanaway



Keep Operations Running

KOR Equipment Solutions Pty Ltd

PO Box 55 Mulgrave VIC 3170

P 1300 KORQUIP

E info@kor.com.au

www.kor.com.au

10/10/2019

IBSA Manufacturing
Mark Shaddock
Industry Engagement Partner
Level 11, 176 Wellington Pde
East Melbourne, VIC 3002

Dear Mark,

I am writing on behalf of KOR Equipment Solutions Pty Ltd, to provide a letter of support for the Water Jetting MSM Manufacturing Training Package Case for Change. KOR Equipment Solutions is a provider of equipment to the high pressure water jetting industry.

A review of the MSMWJ units of competency, and associated skill sets, in the MSM Manufacturing Training Package is urgently required to ensure skills and knowledge continue to reflect industry practice and meet safety requirements. There has been a number of advances in the operation and maintenance of water jetting systems, as well as new technologies that have occurred which should be included in the course content.

Several further changes, especially to the assessment requirements, are required to provide clarity ensuring units are being interpreted consistently and implemented in line with Australian Standards for high pressure water jetting.

We believe there is great benefit in reviewing these training package components and look forward to working with IBSA Manufacturing on this project.

Regards,

A handwritten signature in blue ink, appearing to read 'Peter Jones', with a long horizontal flourish extending to the right.

Peter Jones

Business Manager WA/NT/SA



15 October 2019

IBSA Manufacturing
Mark Shaddock
Industry Engagement Partner
Level 11, 176 Wellington Pde
East Melbourne, VIC 3002

Dear Mark,

I am writing to provide a letter of support for the Water Jetting MSM Manufacturing Training Package Case for Change.

Kelly's Australia is a Queensland-based water jetting company, providing industrial water jetting services throughout Australia and South East Asia since 1996. Our capabilities include:

- UHP for surface preparation, removal of coatings, rubber and corrosion
- UHP deck blasting and recovery
- Hydro demolition, scabbling and cutting
- Automated flexi-lance tube cleaning
- Hydro-jet drain cleaning
- Tank and vessel cleaning

A review of the MSMWJ units of competency, and associated skill sets, in the MSM Manufacturing Training Package is urgently required to ensure skills and knowledge continue to reflect industry practice and meet safety requirements. There has been a number of advances in the operation and maintenance of water jetting systems, as well as new technologies that have occurred which should be included in content.

Several further changes, especially to the assessment requirements, are required to provide clarity ensuring units are being interpreted consistently and implemented in line with Australian Standards for high pressure water jetting.

We believe there is great benefit in reviewing these training package components and look forward to working with IBSA Manufacturing on this project.

Regards,

Bill Kelly
MANAGER

Tel: [07] 4061 6683

Fax: [07] 4061 6783

PO Box 514, Innisfail QLD 4860

Email: info@kellysaustralia.com.au

www.kellysaustralia.com.au

ABN: 27 134 889 651





5/67 Industrial Drive
Braeside VIC 3195
0468 388 751
www.aquaprep.com.au

14th October 2019

IBSA Manufacturing
Mark Shaddock
Industry Engagement Partner
Level 11, 176 Wellington Pde
East Melbourne, VIC 3002

Dear Mark,

I am writing on behalf of Aqua Prep Pty Ltd, to provide a letter of support for the Water Jetting MSM Manufacturing Training Package Case for Change.

We are a contractor specializing in high pressure water jetting, concrete demolition, cold cutting, and coatings removal.

A review of the MSMWJ units of competency, and associated skill sets, in the MSM Manufacturing Training Package is urgently required to ensure skills and knowledge continue to reflect industry practice and meet safety requirements. There has been a number of advances in the operation and maintenance of water jetting systems, as well as new technologies that have occurred which should be included in the course content.

Several further changes, especially to the assessment requirements, are required to provide clarity ensuring units are being interpreted consistently and implemented in line with Australian Standards for high pressure water jetting.

We believe there is great benefit in reviewing these training package components and look forward to working with IBSA Manufacturing on this project.

Regards,

Peter Bradford
Managing Director

14 October 2019

IBSA Manufacturing
Mark Shaddock
Industry Engagement Partner
Level 11, 176 Wellington Pde
East Melbourne, VIC 3002

Dear Mark,

I am writing to provide a letter of support for the Water Jetting MSM Manufacturing Training Package Case for Change.

Operating in heavy industry for over 30 years across dozens of major hazard facilities in Australia, New Zealand, and the Middle East puts Contract Resources in a unique position to offer industry insights that can positively impact on the revision of the Water Jetting MSM Manufacturing Training Package.

Contract Resources prides itself on supplying the latest innovative solutions in High and Ultra-High Pressure Water (HPW) jetting equipment and associated safety devices. Researching, designing, and investing in innovative cleaning and coatings-removal attachments, safety improvement initiatives, and automating technology enables Contract Resources to reduce and remove risks that were previously understood as acceptable.

Our fleet of pumps range from 3,000 – 50,000psi, and we have maintenance facilities in all main centres to ensure reliability and optimum performance of all equipment. We also supply a range of purpose-built offshore equipment to meet the offshore oil and gas industry specifications and requirements. Our professional approach to equipment presentation and maintenance means all pump rigs are fully stocked and setup to respond quickly to any potential scenario.

It is the opinion of Contract Resources that a review of the MSMWJ units of competency, and associated skill sets, in the MSM Manufacturing Training Package is urgently required to ensure skills and knowledge continue to reflect industry practice and meet safety requirements. There has been a number of advances in the operation and maintenance of water jetting systems, as well as new technologies that have occurred which should be included in content.

Several further changes, especially to the assessment requirements, are required to provide clarity ensuring units are being interpreted consistently and implemented in line with Australian Standards for HPW jetting.

We believe there is great benefit in reviewing these training package components and look forward to working with IBSA Manufacturing on this project.

Yours sincerely



Mark Rigoli
HSET Coordinator



Trainright Industrial Services

ABN 34 601 611 143

16 Parker Street
Williamstown Vic 3016
Tel 03 8340-0415
info@trainright.net.au



OCTOBER 10, 2019

RE: UoC & Trainer Experience

To Whom This May Concern,

I am writing to provide a letter of support for the Water Jetting MSM Manufacturing Training Package Case for Change.

Trainright, delivers high pressure water jetting and vacuum loading training courses and has done since September 2013. Trainright's five trainers all have, hands-on high-pressure water jetting and vacuum loading experience. They have each project managed shutdowns and various other related high-pressure water jetting and vacuum loading projects. Our hands on and training experience is varied between industrial services, Municipalities, Utilities, Staples, Mining, Manufacturing, Construction, Maritime, Pulp & Paper Oil & Gas.

A review of the MSMWJ units of competency, and associated skill sets, in the MSM Manufacturing Training Package is urgently required to ensure skills and knowledge continue to reflect industry practice and meet safety requirements. There has been a number of advances in the operation and maintenance of water jetting systems, as well as new technologies that have occurred which should be included in content.

Several further changes, especially to the assessment requirements, are required to provide clarity ensuring units are being interpreted consistently and implemented in line with Australian Standards for high pressure water jetting.

We believe there is great benefit in reviewing these training package components and look forward to working with IBSA Manufacturing on this project.

With Thanks & Kind Regards,

Ethan Leeds

A handwritten signature in black ink, appearing to read "Ethan", written in a cursive style.

Director

Ph. 0414 368 197

E. ethan@trainright.net.au



15/10/2019

IBSA Manufacturing
Mark Shaddock
Industry Engagement Partner
Level 11, 176 Wellington Pde
East Melbourne, VIC 3002

Dear Mark,

I am writing to provide a letter of support for the Water Jetting MSM Manufacturing Training Package Case for Change.

Orontide have been carrying out water blasting activities for over 15 years in the mining, oil and gas and construction industries. We conduct the following type of water blasting activities. Hand held lance work, flexi lancing, cold cutting, deck mowing and rubber removal using semi-automated tooling.

A review of the MSMWJ units of competency, and associated skill sets, in the MSM Manufacturing Training Package is urgently required to ensure skills and knowledge continue to reflect industry practice and meet safety requirements. There has been a number of advances in the operation and maintenance of water jetting systems, as well as new technologies that have occurred which should be included in content.

Several further changes, especially to the assessment requirements, are required to provide clarity ensuring units are being interpreted consistently and implemented in line with Australian Standards for high pressure water jetting. We believe there is great benefit in reviewing these training package components and look forward to working with IBSA Manufacturing on this project.

Regards,
Narayan Lenehan.
Project coordinator.

10/10/2019

IBSA Manufacturing
Mark Shaddock
Industry Engagement Partner
Level 11, 176 Wellington Pde
East Melbourne, VIC 3002

Dear Mark,

I am writing on behalf of WOMA (Australia) Pty Ltd, to provide a letter of support for the Water Jetting MSM Manufacturing Training Package Case for Change.

WOMA (Australia) Pty Ltd is a quality and dependable supplier of Pressure & Vacuum Pumping solutions across five key industrial sectors; infrastructure, construction, energy, defence and resources including Oil & Gas and Mining. We offer Engineering, Service & Support, Spares, Accessories, Rental and Training as well as Explosive proof solutions. WOMA's innovative hazardous environment industrial solutions are available to the material handling, defence, marine, shipping, petro-chemical and processing industries as well as specific tooling for oil and gas and underground mining. From fork trucks and hydraulic power packs to air compressors, vacuum systems and high pressure pump systems we offer turnkey dependability.

A review of the MSMWJ units of competency, and associated skill sets, in the MSM Manufacturing Training Package is urgently required to ensure skills and knowledge continue to reflect industry practice and meet safety requirements. There has been a number of advances in the operation and maintenance of water jetting systems, as well as new technologies that have occurred which should be included in the course content.

Several further changes, especially to the assessment requirements, are required to provide clarity ensuring units are being interpreted consistently and implemented in line with Australian Standards for high pressure water jetting.

We believe there is great benefit in reviewing these training package components and look forward to working with IBSA Manufacturing on this project.

Regards,



Ian Blevin
Managing Director