

Hazard & Risk Assessment Procedure

WeldConnect Operates a

QUALITY MANAGEMENT SYSTEM

Which complies with the requirements of **ISO 9001:2015**

For the following Scope:


Consulting and provision of hazard & risk assessment on Welding & oxy/fuel Gas Dangerous Goods equipment and environment, including provision of welding consumables and safety supplies

Certification No – QMS41304

ISSUED 24 AUGUST 2016



Quality
ISO 9001



A systematic compliance management program that tests, assesses and reports on all risks associated to a company's welding and oxy/fuel equipment and environment.

About WeldConnect Group

Established in 2013, WeldConnect Group Pty Ltd is the first company to have developed a systematic compliance application (app) that can assess and test a company's welding and oxy/fuel equipment and environment.

The WeldConnect app was born from our ambition to combine the extensive intelligence gained from 20 years of working in the Welding Maintenance industry, with the capabilities of modern-day technology.

When you're dealing with a Weldconnect consultant, you're dealing with an industry expert. The WeldConnect Team are committed to delivering a World-class compliance management program that tests, assesses and reports on all risks associated with the people, property and working environment of your business, in order to ensure the safety of every Welding workshop.

Our success is purely a reflection of our customers and their experience with our people, systems and processes. It's our endeavour that each one of these components connects together seamlessly to ensure high-level outcomes, for every client, every time.

WeldConnect Group has representation along the East Coast of Australia, with consultants in QLD, VIC and SA. Further expansion throughout the North and West will commence over the next year in line with our vision to achieve Australia-wide coverage.



The WeldConnect Assessment Procedure

The assessment criteria used within the WeldConnect app, identifies all risks posed by a site's welding allied processes and oxy/fuel class 2 dangerous goods and equipment - to people, property and the working environment within your business.

There are 2 separate assessment procedures:

- Welding allied processes & equipment
- Oxy/fuel class 2 dangerous goods & equipment

All WeldConnect consultants will carry out your business's assessment procedure in line with the below objective.

Our Objective

The WeldConnect app incorporates all relevant requirements of State Acts, Regulations and Australian Standards. This legislation guides our expert consultants when testing and maintaining equipment and site welding environment allied processes and dangerous goods protocols to a strict standard.

Every element of the WeldConnect app is automated to rate each hazard identified as a risk to your business in a low, medium, high matrix.

Our WeldConnect consultants will assist your team through communication and factual reporting, to:

- Maintain compliance.
- Assist management to make calculated resourceful decisions.
- Establish a high level of safety consistency.
- Understand the cost to maintain your business's safety standards within this field.
- Keep your team safe.

This precise approach will give your business the best possible result, helping to keep your people safe, productive and with planned budgets.

How It Works

1. Book a WeldConnect consultant

A certified WeldConnect consultant visits your site and collaborates closely with you to establish an appropriate testing assessment routine.



2. The Consultant commences work on-site

Using our specialised App, the certified consultant carries out the required oxy/fuel & welding allied processes and equipment testing/environment procedures.

3. We complete a hazard and risk assessment

Our App ensures compliance, following the core requirements of the National Standards "systematic approach" - Hazard, Risk, Control, Report, Communicate & Review.



4. Map your business safety requirements

The App also maps your business safety requirements based on all current National Acts, Regulations, Codes of Practice and Australian Standards, guaranteeing the job is completed correctly to the highest safety standard.



5. Achieve safety compliance

Your consultant will provide you a live report outlining your exact safety position, and on-site walk through to help maintain your safety compliance.

6. Access your online Report

Our Cloud-based App stores all your reports securely and they can be viewed on your smart phone, tablet or PC at any time live through our website.

Welding Allied Processes & Equipment

Overview

The the WeldConnect assessment criteria and report will identify the risks posed by a site's welding environment and welding allied processes to people, property and the working environment within your business.

Competency Levels

Management Competency

WeldConnect management must hold as a minimum competency:

- Occupational Health and Safety Diploma.
- Risk management skills.
- Certificate 4 Training and Assessing.

Consultants & Representatives Competency

All WeldConnect consultants and representatives must have as a minimum competency:

- WeldConnect 40 hour oxy/fuel gas dangerous goods and equipment Scope of Work Training/Certification.
- Training in Welding Processes Code of Practice July 2012.
- Ability to understand and identify hazards with welding structure, plant and systems of work.
- An understanding in how to complete a hazard and risk assessment.
- An understanding in hazardous chemicals, airborne contaminants and plant.
- Ability to understand the review and control measures.
- Good communication skills.
- Skills in performing manual welding allied processes.

On-site Risk Management Process

The WeldConnect on-site risk management process comprises of the below 3 elements:

- Welding set hazard and risk identification, and recommended controls.
- Welding set inspection, testing and tagging.
- Welding environment hazard and risk identification, and recommended controls.

Our consultants will assess, test, tag and comply to the following legislation:

- Code Of Practice – Welding Processes July 2012.
- Australian Standards Guidance 1674.2-2007 *Safety in Welding and Allied Processes – Electrical*.

Our Systematic Approach

The national standard approach to risk management comprises of a 3-step process, plus recording and review, as indicated below. This systematic approach is followed during all assessments carried out by WeldConnect.

Steps	Key Elements	References
STEP 1 Identify the hazard	<ul style="list-style-type: none"> • Conduct a walk through assessment. • Inspect the materials and equipment that will be used during welding processes. • Identify SDS, PPE and surrounds. 	CoP 2.1
STEP 2 Assess the risk	<ul style="list-style-type: none"> • Identify which workers are at risk. • Properties of materials and surface coatings. • Condition of welding equipment. • Condition under which welding is carried out. • Skills, competence and experience of welders. • Record results of assessment. 	CoP 2.2
STEP 3 Control the risks	<ul style="list-style-type: none"> • Apply practicability test (Based on feasibility and cost of mitigating risk). • Eliminate hazards leading to risk where possible. • Implement risk control. • Hierarchy of controls. 	CoP 2.3
Review	<ul style="list-style-type: none"> • Repeat Step 1 & 2 to ensure risks mitigated. • Record results of routine assessment. • Implement additional risk control measures. 	CoP 2.4

Welding Allied Processes and Welding Equipment Assessment, Testing & Tagging

This on-site procedure can be routinely carried out by our expert consultants monthly, quarterly or every 6 and 12 months, depending on the needs of your business.

The Welding equipment hazard and risk assessment, testing and tagging procedure includes all welding machines – mig, tig, arc, plasma and generator welders. These assessments will be carried out on the following equipment:

- Welding machine power source.
- Power source - compliant testing and tagging.
- All welding machine inspection/assessments.
- The environment the welding machine is working in.
- Welding machines connector, leads and holder clamp inspection.
- Electrode holder, leads and connectors.
- Mig, tig, plasma holers, leads and connections.
- Onnection/terminals.
- Earth clamp, leads and connections.
- Return cable leads.
- Terminals connections.
- Argon/cylinder regulators and leak test.
- Maintenance and equipment.

Welding Environment Assessment

The following Welding environment assessments will be undertaken:

- Airbourne contaminants - Guidance to Welding Fume Protection Assessments.
- Radiation - Guidance to Protect People from UV and Infra-Red Radiation.
- Fire and explosion - Guidance to Protect Against Fire.
- General welding safety - Peoples Safety and Surrounding Environment.
- Maintenance of equipment.



Oxy/Fuel Class 2 Gas Dangerous Goods & Equipment

Overview

The WeldConnect assessment criteria and report will identify the risks posed by class 2 dangerous goods gas allied processes to people, property and the working environment within your business.

Competency Levels

Management Competency

WeldConnect management must hold as a minimum competency:

- Occupational Health and Safety Diploma.
- Risk management skills.
- Certificate 4 Training and Assessing.

Consultants & Representatives Competency

All WeldConnect consultants and representatives must have as a minimum competency:

- WeldConnect 40 hour oxy/fuel gas dangerous goods and equipment Scope of Work Training/Certification.
- Training in class 2 gas dangerous goods [NOHSC :2017(2001)].
- WeldConnect Certificate and Certified Assessor.
- Flashback Arrestor Testing Certification.
- Harris Certified Repairer.
- Certification in Local Risk Control Processes.
- Skills in performing manual heating and thermal cutting.



On-site Risk Management Process

The WeldConnect on-site risk management process comprises of the below 3 elements:

- Gas oxy/fuel set hazard and risk identification and recommended controls.
- Gas oxy/fuel set inspection, testing and tagging.
- Gas dangerous goods hazard and risk identification and recommended controls.

Our consultants will assess, test, tag and comply to:

- Regulation - Storage & Handling of Workplace Dangerous Goods [NOHSC :2017(2001)].
- Australian Standards Guidance - 4839-2001 – *The safe use of portable and mobile oxy-fuel gas systems for welding, cutting, heating and allied processes.*

Our Systematic Approach

The national standard approach to risk management comprises of a 3-step process, plus recording and review, as indicated below. This systematic approach is followed during all assessments carried out by WeldConnect.

Steps	Key Elements	References
STEP 1 Identify the hazard	• Identify all of the dangerous goods and their hazards.	NS 13
	• Identify the hazards arising from the storage and handling processes.	CoP 13
	• Identify any neighbouring or external hazards.	
STEP 2 Assess the risk	• Assess the severity of the incident outcome arising from each hazard (S).	NS 14
	• Assess the likelihood of this incident taking place (L).	CoP 14
	• Determine initial prioritisation of risk (L x S).	
	• Record results of assessment.	
STEP 3 Control the risks	• Apply practicability test (Based on feasibility and cost of mitigating risk).	CoP 5.1
	• Eliminate hazards leading to risk, where possible.	NS 15
	• Implement risk control.	CoP 15
Review	• Repeat Step 1 & 2 to ensure risks mitigated.	NS 13-15
	• Record results of routine assessment.	
	• Implement additional risk control measures.	CoP 13-15

Oxy/Fuel Gas Equipment Assessment, Testing & Tagging

This on-site procedure can be routinely carried out by our expert consultants monthly, quarterly or every 6 and 12 months, depending on the needs of your business.

Oxy/fuel gas equipment assessment, testing & tagging involves assessments of the following:

- Regulators.
- Flashback arrestor testing.
- Hoses.
- Handpieces/blowpipes as 4839 section 6.6.
- Cutting attachments, mixers, brazing and cutting tips.
- Workshop environment and operators accessories.
- Cylinder trolleys/cylinder safety.

Class 2 Dangerous Goods Assessment

The class 2 dangerous goods assessment procedure involves the following:

- Storage facility.
- Manifest.
- Hazard identification & risk assessment.
- Risks/documentation.
- Information/training/supervision/education.
- Risk - visitors/contractors.
- Investigation/accident procedure.
- Emergency plan/procedure.
- Personnel Protective Equipment (PPE).



Locations

WeldConnect Group has trained certified agencies throughout Australia. At any time, please contact your designated Manager to discuss your Welding & Oxy Environment assessment and supply.

For more information, please go to www.weldconnect.com.au

Manager Locations



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Keeping Welding Safe



Quality
ISO 9001

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