PRODUCT GUIDE

Workplace Risk Assessment

Bolted Steel Tank Manufacturing Workshop

9 sections · 60 activities · 350 hazards · 1,491 controls · Specific to your state or territory

Not a template. A complete risk assessment system – already assessed by an occupational hygienist, completed by you on your workshop floor, and signed as your own.

Assessed for you	Completed by you	Signed as yours
Every hazard identified, its consequences described and its starting risk rated by a Certified Industrial Hygienist.	Walk your workshop and answer Yes / No / N/A for each control. The online calculator does all the scoring.	A site-specific risk assessment with residual risk for every hazard and a prioritised action plan.

1. More than a template

A template gives you blank tables and generic hazards, and leaves the hard part – deciding what the risks are, how bad they are and whether your controls are good enough – to you. This system does that work for you, and then makes it specific to your site.

	A typical template	This system
Hazards	Generic list, often not about your work	350 hazards specific to bolted steel tank manufacturing, activity by activity
Risk rating	You decide how bad each risk is	Starting (inherent) risk already rated by a Certified Industrial Hygienist for people, property, environment and reputation
Controls	Blank space to write your own	1,491 controls listed for you, ranked by the hierarchy of control – you simply say whether each is in place
Residual risk	You guess whether your controls are enough	Calculated for every hazard from the controls you actually have, the same way every time
Occupational hygiene	Usually missing	Fume, dust, noise, vibration, chemicals, heat and ergonomics assessed alongside safety and fire
Action plan	You write it from scratch	Built automatically from every missing control, most urgent and most effective first
Review	Start again next year	Change only what has changed; the results and action plan update

The result

A risk assessment that shows an inspector, an insurer or a principal contractor exactly which hazards exist in your workshop, how serious they are, what you have in place, what is missing, and who is fixing it by when – signed by you after consulting your workers.

2. Why a tank workshop needs one

Work health and safety laws in every Australian state and territory require a business to identify hazards, eliminate risks so far as is reasonably practicable – or minimise them using the hierarchy of control – consult its workers, and review its controls. You receive the version of this risk assessment that is specific to your state or territory, referring to its own laws and regulator.

A tank workshop combines many high-risk activities in one place: heavy lifting and mobile plant, cutting and forming machinery, welding and hot work, abrasive blasting and coating, plastic liner welding, pressure testing and work at height. Many of its most serious risks are health risks that develop over years – welding and cutting fume (including hexavalent chromium from stainless steel), crystalline silica, isocyanates, noise and hand-arm vibration – and are easily missed by a general safety template.

This system follows the four-step risk management process used across Australia:

1. Identify hazards	Done for you – 350 hazards across 60 activities.
2. Assess risks	Inherent risk rated for you; residual risk calculated from your answers.
3. Control risks	Your action plan lists every missing control, ranked by the hierarchy of control.
4. Review controls	Update your answers at each review and after any incident or change.

3. What you get

The workshop is divided into nine sections, so you can buy only the parts that match the work you do – or all of them.

	Section	Covers	Activities	Hazards	Controls
A	**Receiving, Storage and Materials Handling**	Unloading trucks, shipping containers, racking, overhead cranes, forklifts, gas and chemical storage	6	56	339
B	**Cutting and Forming**	Decoiling, guillotines, CNC punching, drilling, plate rolling, press brakes, roll forming, plasma cutting, saws, grinding	11	82	361
C	**Welding and Fabrication**	Galvanised, stainless and aluminium welding, ladders and platforms, fittings, fit-up, pickling and passivation	8	51	215
D	**Surface Preparation and Coating**	Abrasive blasting, pre-treatment, powder coating, curing ovens, specialist coatings, booth cleaning, coating inspection	8	40	152
E	**Liner and Membrane Fabrication**	Cutting, hot-air, wedge and extrusion welding, solvent bonding, seam testing, packing	6	27	106
F	**Insulation, Sealing and Accessories**	Insulation cutting, sealants and mastics, accessory assembly, kitting	4	15	58
G	**Quality Assurance and Trial Assembly**	Inspection and marking, weld testing, pressure testing, trial bolt-up in the yard	4	20	71
H	**Dispatch**	Crating and strapping, loading and load restraint, oversize loads	3	17	61
I	**Maintenance and Workshop Support**	Machine maintenance, compressed air, extraction systems, electrical, housekeeping, waste, yard work, contractors, office	10	42	128
	All nine sections		**60**	**350**	**1,491**

Every activity is assessed in three parts:

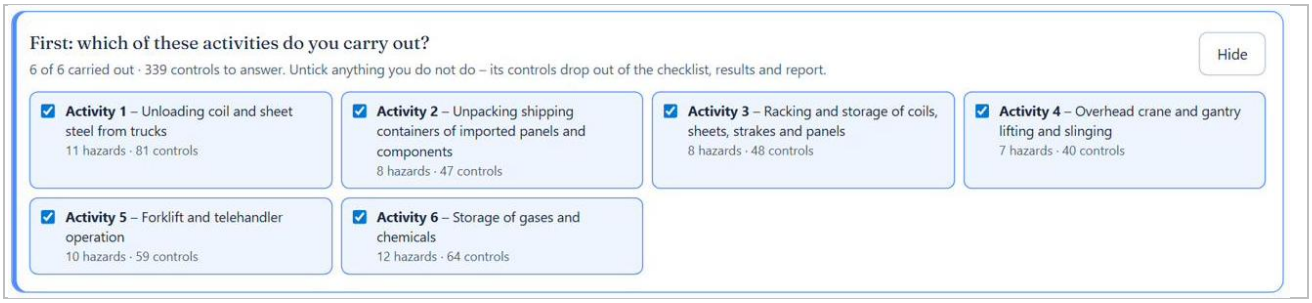
General Safety	Fire and Explosion	Occupational Hygiene
Machinery, mobile plant, lifting, work at height, stored energy, sharp edges	Hot work, flammable gases and liquids, dust clouds, electrical faults	Fume, dust, gases, chemicals, noise, vibration, heat, UV, ergonomics

For each section you buy

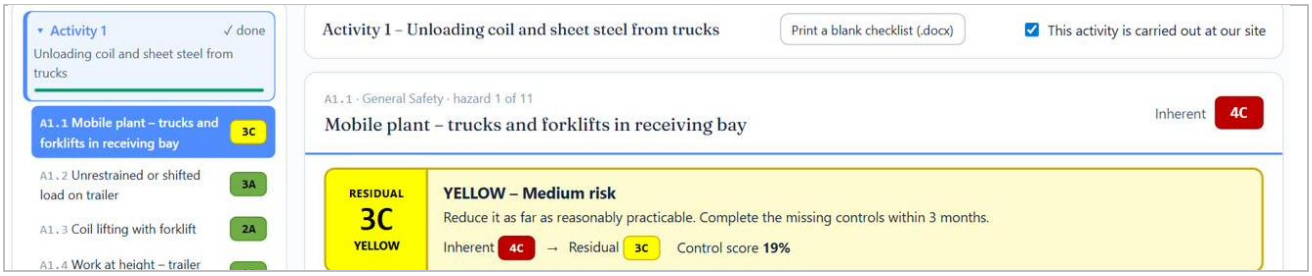
Risk assessment document (Word)	Pre-filled with the method, the hazard register and the inherent risk of every hazard – your reference copy, to read before and during the walk.
Online risk assessment calculator	Every control for every hazard, answered Yes / No / N/A on a phone, tablet or computer. It calculates the residual risk of each hazard, builds your action plan and produces the finished Word report that you print and sign.
Quick Start Guide	Step-by-step instructions with screenshots.

4. How it works

1	**Buy the sections you need**	You receive the Word risk assessment, the Quick Start Guide and access to the calculator for each section, by email.
2	**Sign in and choose your activities**	Untick any activity you do not carry out – its hazards and controls drop out, so you only answer what applies to you.
3	**Walk your workshop**	With a supervisor and at least one worker or your Health and Safety Representative, answer each control: Yes (in place and working), No (missing or not working) or N/A (does not apply). A section typically takes a few hours on the floor.
4	**See your results**	As each hazard is finished, the calculator shows its residual risk – RED, YELLOW or GREEN – and adds every missing control to your action plan, most urgent first. You give each action a responsible person and a due date.
5	**Complete and sign**	Add your site details and who you consulted, then download the finished Word report. Every result and your action plan are already in it – print it and sign.



Step 2 – choose the activities you carry out.



Step 4 – a finished hazard: inherent risk 4C reduced to a residual risk of 3C (YELLOW) by the controls in place.

REF	HAZARD	INHERENT	CONTROL SCORE	RESIDUAL	COLOUR	STATUS
A1.1	Mobile plant – trucks and forklifts in receiving bay	4C	19%	3C	YELLOW – Medium risk	Complete
A1.2	Unrestrained or shifted load on trailer	4C	88%	3A	GREEN – Low risk	Complete
A1.3	Coil lifting with forklift	4C	89%	2A	GREEN – Low risk	Complete
A1.4	Work at height – trailer deck	3D	91%	1A	GREEN – Low risk	Complete
A1.5	Sharp edges and tensioned strapping	2D	88%	1A	GREEN – Low risk	Complete
A1.6	LPG-fuelled forklift	3B	100%	1A	GREEN – Low risk	Complete
A1.7	Delivery truck fire	4B	100%	2A	GREEN – Low risk	Complete

Step 4 – results for every hazard: inherent risk, control score, residual risk and colour.

Step 4 – the action plan: every missing control, most urgent first, each with a responsible person and due date.

Step 5 – the calculator checks that everything is complete before you sign.

5. What you end up with

- ✓ **A signed, site-specific risk assessment** – your hazards, your controls, your results, your consultation and your signature.
- ✓ **Inherent and residual risk for every hazard** – showing how much your controls reduce each risk, and which risks still need action.
- ✓ **A prioritised action plan** – every missing control, with the most urgent and most effective first, and a responsible person and due date for each.
- ✓ **Evidence of consultation** – the workers and Health and Safety Representatives you consulted, recorded in the assessment.
- ✓ **A complete record** – the calculator report lists every control and your answer, and every report you download is kept in your account.
- ✓ **An easy annual review** – open the calculator, change only what has changed, and produce an updated assessment.

6. A consistent, professional method

Every hazard is rated with a severity number (0 to 5 – how bad the outcome could be, for people, property, the environment and reputation) and a probability letter (A to E – how likely it is), giving a rating such as 4C on a colour-coded risk matrix.

- **Inherent risk** – the risk with no controls, rated for you by a Certified Industrial Hygienist.
- **Residual risk** – calculated from the controls you actually have. Controls higher in the hierarchy of control (elimination, substitution, engineering) count for more than rules and PPE, and controls that physically limit harm can reduce the severity as well as the likelihood.
- **Occupational hygiene principles built in** – for example, general or 'open-door' ventilation is not accepted as a control for cancer-causing fume and gases; they must be captured at source and measured.
- **The same answer every time** – two people answering the same way get the same result, so your assessment is consistent from site to site and year to year.

7. Built for the workshop floor

Phone, tablet or computer Large Yes / No / N/A buttons on a phone; keyboard answering on a computer.	**Saves automatically** No save button – stop and come back at any time.

Works without signal Answers are kept on the device and saved when the connection returns.	**'Not sure – come back to it'** Flag a control and note what to check, then return to it later.
Only what applies Untick activities you do not carry out; answer N/A for controls that cannot apply.	**Print a paper checklist** For a clipboard walkthrough, then enter the answers online.

8. Frequently asked questions

Do I need a safety qualification?	No. The hazards, consequences and inherent risks are already assessed. You need to know your workshop and answer honestly what is in place.
Is it just a template I fill in?	No. The assessment work is done for you, the calculator applies the method consistently, and the result is specific to your site and your controls.
Can I buy only the sections I need?	Yes. Each section is sold separately, or you can buy all nine.
What if we don't do some of the activities?	Untick them. Their hazards and controls are left out of your results and your assessment.
How long does it take?	Typically a few hours on the workshop floor per section. The report is produced for you – nothing to copy across.
Is it specific to my state?	Yes. You receive the version for your state or territory, based on its own work health and safety laws and regulator guidance.
Who signs it?	You do – the business owner or manager – after consulting your workers. It becomes your risk assessment.
What happens at the next review?	Your answers stay in your account. Change only what has changed and produce an updated assessment.

Please note

This is a professionally prepared assessment of a typical bolted steel tank workshop, completed by you for your site. Some items – for example air and noise monitoring, health monitoring, machinery guarding assessments, racking inspections and electrical work – must still be carried out by a competent or licensed person. Your assessment shows where these apply.

Get started

See the sections and buy online at **ohconsultant.com.au/compliance-packs/tank-manufacturing**