

**Fluid Handling and Disposal**

Business Name:		ABN:	
Business Address:			
Contact Person:	Phone:	Email:	

**THIS RISK ASSESSMENT IS APPROVED BY THE PCBU ON THIS PROJECT**

Under the Work Health and Safety Regulation (WHS Regulation), a person conducting a business or undertaking (PCBU) is required to ensure that a RISK ASSESSMENT is prepared before the proposed work starts.

Full Name:		
Signature:	Title:	Date:

**CLIENT OR PRINCIPAL CONTRACTOR DETAILS**

Client:	SCOPE OF WORKS
Project Name:	
Project Address:	
Project Manager:	
Contact Phone:	
Date Risk Assessment supplied to Project Manager:	



RISK MATRIX									
LIKELIHOOD	INSIGNIFICANT	MINOR	MODERATE	MAJOR	CATASTROPHIC	SCORE	ACTION	HIERARCHY OF CONTROLS	
ALMOST CERTAIN	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4 ACUTE			<b>Elimination</b> Remove the hazard.	
LIKELY	2 MODERATE	3 HIGH	3 HIGH	4 ACUTE	4 ACUTE	4A ACUTE	DO NOT PROCEED	<b>Substitution</b> Replace the hazard.	
POSSIBLE	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	4 ACUTE	3H HIGH	Review before work starts.	Isolation Isolate People from the hazard	
UNLIKELY	1 LOW	1 LOW	2 MODERATE	3 HIGH	4 ACUTE	2M MODERATE	Ensure control measures in place.	<b>Engineering</b> Isolate the hazard	
RARE	1 LOW	1 LOW	2 MODERATE	3 HIGH	3 HIGH	1L LOW	Monitor and keep records.	Administrative Change	
								PPE	

  

Risk Rating & Required Action:	
<b>4A</b>	Stop work. The risk is intolerable. Eliminate the hazard or redesign the activity before proceeding. A Safe Work Method Statement (SWMS) or higher-level authorisation is required.
<b>3H</b>	Review and approve additional controls before task starts. Senior supervisor sign-off needed.
<b>2M</b>	Ensure all nominated controls are in place and effective. Proceed with caution; monitor conditions.
<b>1L</b>	Proceed, following standard operating procedures. Monitor and keep records.

  

Consequence Scale:			
Consequence	People (injury/illness)	Project / Assets	Compliance / Reputation
<b>Catastrophic</b>	Fatality or permanent total disability	project shutdown	Significant regulator intervention; criminal prosecution
<b>Major</b>	Serious injury/illness (hospital > 5 days)	critical delay	Improvement notice; major media coverage
<b>Moderate</b>	Medical-treatment injury; lost-time > 1 day	moderate delay	Minor breach; adverse client comment
<b>Minor</b>	First-aid only, no lost time	negligible delay	Isolated non-conformance
<b>Insignificant</b>	No injury	no schedule impact	Deviation caught and corrected on site

  

**Notes on Hierarchy of Controls:**  
Remember to apply controls in the preferred order shown by the coloured pyramid:

1. **Eliminate**
2. **Substitute**
3. **Isolate**
4. **Engineering**
5. **Administrative**
6. **PPE**

Always document **why** a lower-order control is accepted if elimination or substitution is not reasonably practicable.

*aligned with Safe Work Australia's Managing the risk of fatigue at work (2023) and ISO 45001:2018 clauses 6–8.*

JOB STEP	POTENTIAL HAZARDS	IR	CONTROL MEASURES	RR
SPECIFIC WORK STEPS	HAZARDS THAT MAY ARISE	INITIAL RISK	SPECIFIC MEASURES TO BE PUT IN PLACE TO ELIMINATE OR CONTROL THE RISKS	RESIDUAL RISK
1. WHS Governance, Policies and Legal Compliance	<ul style="list-style-type: none"> <li>Absence of a documented WHS policy framework for fluid handling and disposal (oil, coolant, fuel, transmission fluid, power steering fluid, gear oil, nitrogen, grease)</li> <li>Failure to integrate WHS Act 2011 and WHS Regulations into site procedures for fluid management</li> <li>Inadequate clarification of duties for PCBUs, officers, workers and contractors handling automotive fluids</li> <li>No systematic consultation process with mechanics, apprentices and contractors about fluid-related risks</li> <li>Lack of process to review incidents and near misses relating to fluid handling, leaks, and waste disposal</li> <li>Non-compliance with environmental and dangerous goods requirements for storage and disposal of automotive fluids</li> <li>Inadequate alignment between WHS policies and workshop quality or environmental management systems</li> </ul>	4A	<ul style="list-style-type: none"> <li>Develop and maintain a WHS governance framework that specifically addresses fluid handling, storage and disposal in line with WHS Act 2011 and WHS Regulations</li> <li>Establish a written Fluid Handling and Disposal policy endorsed by senior management, including scope for oil change procedures, coolant system draining, fuel system repairs and transmission fluid changes</li> <li>Define and document WHS responsibilities for officers, supervisors, leading hands and mechanics in relation to planning, supervising and monitoring fluid-related work</li> <li>Implement a formal consultation mechanism (e.g. HSR meetings, toolbox talks, safety committees) that regularly includes agendas items on fluid handling incidents, changes to equipment and procedure updates</li> <li>Ensure legal requirements include relevant WHS, dangerous goods, fire safety and environmental legislation standards for the management of oils, coolants, fuels and nitrogen gas</li> <li>Introduce a documented change management process so that new automatic transmission flushers, coolant flushers or fuel system cleaners are risk assessed prior to introduction</li> <li>Schedule annual reviews of all fluid-related WHS policies and procedures, incorporating incident learning, industry guidance and regulator publications</li> <li>Include WHS compliance for fluid handling and disposal as a standing item in management review meetings</li> </ul>	3H
2. Workshop Layout, Plant Selection and Engineering Design	<ul style="list-style-type: none"> <li>Poor workshop layout leading to congestion and unsafe movement around fluid service bays and drains</li> <li>Inadequate bunding and containment design around oil, coolant and fuel storage areas</li> <li>Selection of inappropriate or low-quality automatic transmission flushers, coolant flushers and fluid transfer pumps without inherent safety features</li> <li>Lack of separation between hot work, ignition sources and areas used for draining diesel, petrol and other flammable fluids</li> <li>Insufficient or poorly located floor drains and sumps causing pooling of oils, coolants and cleaning chemicals</li> </ul>	4A	<ul style="list-style-type: none"> <li>Undertake a formal design and layout review of the workshop to optimise safe traffic flow, clear access to hoists and designated fluid service bays</li> <li>Install compliant bunding, drip trays and graded flooring to direct spills to controlled collection points instead of walkways</li> <li>Specify plant procurement standards requiring auto-shutoff, pressure relief, guarding, and splash protection features on automatic transmission flushers, coolant flushers and fluid transfer equipment</li> <li>Implement physical separation and zoning between fluid handling activities and welding, grinding or other ignition sources, including clearly marked exclusion zones</li> <li>Ensure floor drainage systems are designed by a competent person, with sediment traps and oil-water separation where required, and are maintained on a schedule</li> <li>Provide mechanical ventilation or local exhaust in areas where fuel vapours, solvent fumes or nitrogen gas may be present, ensuring compliance with relevant exposure standards</li> <li>Design and label segregated storage areas and cabinets for different fluid types and chemical classes, including secondary containment and compatibility controls</li> </ul>	2M

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	<ul style="list-style-type: none"> <li>Inadequate ventilation design in areas where fuel vapours or nitrogen gas may accumulate</li> <li>No provision for segregated storage of incompatible fluids (e.g. fuel vs coolant vs waste oil vs cleaning chemicals)</li> </ul>		<ul style="list-style-type: none"> <li>Standardise workshop signage for fluid bays, waste storage, emergency shutoffs and no-smoking zones</li> </ul>	
3. Fluid and Chemical Procurement, Classification and Inventory Management	<ul style="list-style-type: none"> <li>Procurement of incompatible or higher-hazard fluids and cleaners without safety review</li> <li>Use of non-approved fuel system cleaners or additives that introduce unforeseen risks</li> <li>Inadequate assessment of new coolants, oils, greases, and transmission fluids against OEM recommendations</li> <li>Lack of up-to-date Safety Data Sheets (SDS) for oils, coolants, fuel additives and cleaning chemicals</li> <li>Overstocking of flammable and combustible liquids (diesel, petrol, fuel system cleaner) exceeding safe quantities</li> <li>Misidentification or labelling of fluid containers leading to cross-contamination and incorrect use</li> <li>No system to track expiry, shelf life and degradation of stored fluids, especially coolants and brake fluids</li> </ul>	3H	<ul style="list-style-type: none"> <li>Implement a formal chemical and fluid approval process requiring WHS and technical review before purchasing new products for oil changes, coolant replacement, fuel system repairs and gear oil servicing</li> <li>Require suppliers to provide current SDS for oils, coolants, fuel additives, cleaning agents and nitrogen cylinders, and maintain an accurate digital SDS register</li> <li>Standardise on OEM approved or industry-recognised fluids (engine oils, coolant types, transmission fluids, power steering fluids) to minimise compatibility issues with vehicles and equipment</li> <li>Set inventory limits for flammable and combustible liquids based on storage design and regulatory guidance with documented stock control procedures</li> <li>Introduce a labelling or tagging system to track fluid type, batch number, delivery date and expiry or review date, and rotate stock accordingly</li> <li>Mandate clear, durable labelling of all decanted fluids and intermediate containers, using standardised colours and wording for oil, coolant, fuel, waste oil and cleaning solvents</li> <li>Periodically audit fluid stores and compare actual holdings against the inventory register to identify unauthorised products or excess quantities</li> <li>Provide procurement staff with training on hazardous chemical classification, segregation requirements and relevant WHS obligations</li> </ul>	2M
4. Storage, Segregation and Containment of Fluids and Gases	<ul style="list-style-type: none"> <li>Inadequate storage of bulk engine oil, waste oil, gear oil and automatic transmission fluid leading to leaks and ground contamination</li> <li>Improper storage of diesel or petrol near ignition sources or high-traffic areas</li> <li>Inadequate segregation between flammable liquids, oxidising agents and incompatible chemicals</li> <li>Failure of storage tanks, drums or intermediate containers due to corrosion, overfilling or mechanical damage</li> </ul>	4A	<p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p> <p>[REDACTED]</p>	2M

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	<ul style="list-style-type: none"> <li>Poorly managed nitrogen gas cylinder storage, including unsecured cylinders or incorrect valve protection</li> <li>Lack of secondary containment for waste coolants, fuel-contaminated fluids and oily water</li> <li>Fluid containers stacked unsafely, creating a risk of falls, crush injuries or sudden spills</li> </ul>		[REDACTED]	
5. Plant, Equipment and Tooling Management for Fluid Services	<ul style="list-style-type: none"> <li>Failure or misuse of automatic transmission flushers, coolant flushers and power steering flushers due to poor maintenance</li> <li>Leaks or bursts from high-pressure lines, hoses and fittings during nitrogen gas strut refilling</li> <li>Use of non-calibrated or unsuitable pumps and metering devices for oil and coolant dispensing</li> <li>Inadequate guarding or protection on moving components of flushing units and pumps</li> <li>Uncontrolled release of pressurised fluids when servicing injectors and pumps</li> <li>Poor management of fluid capture trays, strainers and filtration devices, leading to blockages and overflows</li> <li>Use of makeshift tools or adapters not designed for specific engine oil, coolant or transmission systems</li> </ul>	4A	[REDACTED]	2M
6. Competency, Training and Supervision for Fluid Handling	<ul style="list-style-type: none"> <li>Mechanics and apprentices performing coolant system draining, oil changes and fuel system repairs without verified competence</li> <li>Lack of specific training on the hazards of different fluids, including skin and respiratory exposure, burns and fire risks</li> </ul>	3H	[REDACTED]	2M

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	<ul style="list-style-type: none"> <li>Inadequate training on nitrogen gas safety during strut refilling activities</li> <li>Poor understanding of OEM requirements for fluid types, change intervals and correct fill procedures</li> <li>Insufficient supervision of new starters and contractors performing complex fluid work such as injector and fuel pump servicing</li> <li>No refresher training for changes in equipment, products or procedures (e.g. new coolant flusher or oil strainer cleaning method)</li> </ul>		[REDACTED]	
7. Procedures, Work Instructions and Standardisation of Fluid Servicing	<ul style="list-style-type: none"> <li>Lack of standardised procedures for draining old engine oil, changing oil filters and replacing gear oil and lubricants</li> <li>Absence of documented steps for safe coolant system draining and coolant replacement, including dealing with h systems</li> <li>Inconsistent methods used for servicing injectors and pumps, increasing risk of slips, injection injury or component damage</li> <li>No clear process for diagnosing and fixing leaks in fuel systems leading to ad-hoc repairs</li> <li>Insufficient instructions regarding vehicle oil strainers and strainers in flushing equipment</li> <li>Confusion over correct sequence for fluid checks and refill resulting in overfilling, underfilling or cross-contamination</li> </ul>	3H	[REDACTED]	2M
8. Hazard Identification, Risk Assessment and Planning of Fluid Tasks	<ul style="list-style-type: none"> <li>Failure to identify non-routine or high-risk fluid tasks such as large-scale coolant flushing or major fuel system repairs</li> <li>Inadequate pre-job planning for vehicles with unknown service history or existing fluid leaks</li> </ul>	3H	[REDACTED]	2M

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	<ul style="list-style-type: none"> <li>No formal risk assessment for modifications to fuel, oil or coolant systems during performance upgrades</li> <li>Lack of structured assessment for remote or offsite servicing where spills and emergency response may be harder to manage</li> <li>Underestimation of combined risks when working with fluids in confined or poorly ventilated spaces</li> <li>Failure to consider manual handling and ergonomic risks associated with handling heavy drums, oil containers and waste fluids</li> </ul>		[REDACTED]	
9. Environmental Management and Waste Fluid Disposal Systems	<ul style="list-style-type: none"> <li>Uncontrolled discharge of waste oil, coolant and fuel-contaminated fluids into stormwater or soil</li> <li>Inadequate systems for segregating waste engine oil, transmission fluid, coolant and contaminated rags</li> <li>Improper disposal of used oil filters, fuel filters and coolant contaminated components</li> <li>Overflow or failure of waste oil tanks, drip trays and oil-water separators due to poor maintenance</li> <li>Incorrect transport or handover of waste fluids to unlicensed contractors</li> <li>No records of waste volumes and disposal pathways, limiting ability to demonstrate compliance</li> </ul>	4A	[REDACTED]	2M
10. Emergency Preparedness, Spill Response and Incident Management	<ul style="list-style-type: none"> <li>Delayed or ineffective response to spills of fuel, oil or coolant due to lack of planning</li> <li>Insufficient spill kits or incompatible absorbent materials for the range of fluids in use</li> </ul>	4A	[REDACTED]	2M

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	<ul style="list-style-type: none"> <li>• Poor understanding of fire risks from fuel vapours near ignition sources in the workshop</li> <li>• Inadequate first aid arrangements for skin or eye contact with corrosive coolants or fuel additives</li> <li>• Lack of structured investigation following fluid-related incidents and near misses</li> <li>• Unclear communication channels for escalating significant spills or fires to emergency services</li> </ul>		[REDACTED]	
11. Personal Protective Equipment, Hygiene and Health Monitoring Systems	<ul style="list-style-type: none"> <li>• Reliance on PPE as the primary control rather than as a supplement to engineering and administrative controls</li> <li>• Inadequate provision, selection or maintenance of PPE for oil, coolant and fuel handling tasks</li> <li>• Poor hygiene practices leading to prolonged skin contact with oils, coolants and solvents</li> <li>• No system for monitoring potential long-term health effects from chronic exposure to certain fuels or additives</li> <li>• Lack of designated clean areas for eating and drinking away from service zones</li> <li>• Limited monitoring of indoor air quality where fuel vapours and cleaning aerosols are used regularly</li> </ul>	3H	[REDACTED]	1L
12. Contractor, Visitor and Third-Party Management in Fluid Service Areas	<ul style="list-style-type: none"> <li>• Contractors performing fuel system repairs or coolant servicing without adherence to site WHS procedures</li> <li>• Visitors and customers entering fluid handling zones without awareness of hazards</li> </ul>	3H	[REDACTED]	2M

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	<ul style="list-style-type: none"> <li>• Inconsistent oversight of mobile contractors undertaking oil change procedures or fuel system repairs on site</li> <li>• Poor coordination with waste contractors collecting used oil, fuel and coolant leading to spills or uncontrolled releases</li> <li>• Lack of verification of contractor competency and insurances for specialised tasks such as nitrogen gas strut refilling</li> </ul>		[REDACTED]	
13. Inspection, Audit and Continuous Improvement of Fluid Management Systems	<ul style="list-style-type: none"> <li>• Degradation of controls over time due to lack of systematic inspection and review</li> <li>• Unnoticed deterioration of hoses, tanks and containment infrastructure</li> <li>• Procedures for oil changes, coolant replacement and fuel system work becoming outdated as vehicle technologies change</li> <li>• Fluid-related incidents and near misses not being analysed to identify system improvements</li> <li>• Under-reporting of minor spills and leaks, leading to normalisation of deviance</li> <li>• No benchmarking of fluid handling practices against industry standards or regulator guidance</li> </ul>	1	[REDACTED]	1L

**EMERGENCY RESPONSE – CALL 000 FOR EMERGENCIES**

Ensure to have an Emergency Management Plan in place as well as adequate numbers of trained first aid staff with easy access to fully stocked first aid kits, rescue equipment, material safety data sheets, adequate access to emergency communication equipment and fire-fighting equipment suitable for all classes of fire and ignition sources.

**LEGISLATIVE REFERENCES**

RELEVANT LEGISLATION AND CODES OF PRACTICE. DELETE THE LEGISLATIVE REFERENCES FOR ANY STATE THAT ARE NOT APPLICABLE

**Queensland & Australian Capital Territory**

Work Health and Safety Act 2011  
 Work Health and Safety Regulations 2011  
 Legislation QLD: <https://www.worksafe.qld.gov.au/laws-and-compliance/work-health-and-safety-laws>  
 Codes of Practice QLD: <https://www.worksafe.qld.gov.au/laws-and-compliance/codes-of-practice>  
 Legislation ACT: <https://www.worksafe.act.gov.au/laws-and-compliance/acts-and-regulations>  
 Codes of Practice ACT: <https://www.worksafe.act.gov.au/laws-and-compliance/codes-of-practice>

**Victoria**

Occupational Health and Safety Act 2004  
 Occupational Health and Safety Regulations 2017  
 Legislation VIC: <https://www.worksafe.vic.gov.au/occupational-health-and-safety-act-and-regulations>  
 Codes of Practice VIC: <https://www.worksafe.vic.gov.au/compliance-codes-and-codes-practice>

**New South Wales**

Work Health and Safety Act 2011  
 Work Health and Safety Regulations 2025  
 Legislation NSW: <https://www.safework.nsw.gov.au/legal-obligations/legislation>  
 Codes of Practice NSW: <https://www.safework.nsw.gov.au/resource-library/list-codes-of-practice>

**Western Australia**

Work Health and Safety Act 2020  
 Work Health and Safety Regulations 2022  
 Legislation Western Australia: <https://www.commerce.wa.gov.au/worksafe/legislation>  
 Codes of Practice WA: <https://www.commerce.wa.gov.au/worksafe/codes-practice>

**Northern Territory**

Work Health and Safety (National Uniform Legislation) Act 2011  
 Work Health and Safety (National Uniform Legislation) Regulation 2011  
 Legislation NT: <https://worksafe.nt.gov.au/laws-and-compliance/workplace-safety-laws>  
 Codes of Practice NT: <https://worksafe.nt.gov.au/laws-and-compliance/codes-of-practice>

**Safe Work Australia Links**

Law and Regulation (All States): <https://www.safeworkaustralia.gov.au/law-and-regulation>  
 Model Codes of Practice: <https://www.safeworkaustralia.gov.au/resources-publications/model-codes-of-practice>

**South Australia**

Work Health and Safety Act 2012 (SA)  
 Work Health and Safety Regulations 2012 (SA)  
 Legislation for SA: <https://www.safework.sa.gov.au/resources/legislation>  
 Codes of Practice for SA: <https://www.safework.sa.gov.au/workplaces/codes-of-practice#COPs>

**Model Codes of Practice**

- Managing noise and preventing hearing loss at work
- Confined spaces
- Labelling of workplace hazardous chemicals
- Managing risks of hazardous chemicals in the workplace
- Welding processes
- First aid in the workplace
- Managing the risk of falls at workplaces
- Hazardous manual tasks
- Managing the risk of falls in housing construction
- Managing electrical risks in the workplace
- Demolition work
- Excavation work
- Work health and safety consultation, cooperation and coordination
- Managing the work environment and facilities
- How to manage work health and safety risks
- Managing risks of plant in the workplace
- Construction work

**Tasmania**

Work Health and Safety Act 2012  
 Work Health and Safety (Transitional and Consequential Provisions) Act 2012  
 Work Health and Safety Regulations 2012  
 Work Health and Safety (Transitional) Regulations 2012  
 Legislation for TAS: <https://worksafe.tas.gov.au/topics/laws-and-compliance/acts-and-regulations>  
 Codes of Practice for TAS: <https://worksafe.tas.gov.au/topics/laws-and-compliance/codes-of-practice>

Details of permits, licenses or access required by regulatory bodies (add or delete as required):

- Permits from local council
- Authorisation to commence work
- Any required documents.