FIELD LEVEL HAZARD ASSESSMENT (FLHA)

Business name

Document: FLHA-001 Rev 1
Assessed: 2026-11-09 17:32
Valid for this shift / task only
Highest risk after controls: Medium

1. BUSINESS AND JOB DETAILS

Job	Hot cutting with oxy-acetylene	**Start date**	Nov 9, 2026
Working hours	7:00 am to 3:30 pm	**Trade**	Welding and fabrication

2. JOB STEPS, HAZARDS AND CONTROLS

#	Job step	Hazards	Risk before	Controls	Risk after	Responsible
1	Get a hot work permit and clear combustibles	Fire from hot works Flammable liquids and gases	**Critical Possible / Fatality**	1.1 Use cold work methods where you can, such as bolting, press fittings or cutting with a saw instead of a torch. [Elimination] 1.2 Move anything that can burn at least 10 metres away, or cover it with fire blankets. [Engineering (guarding)] 1.3 Fire from hot works: see step 5 for the full controls [Administrative] 1.4 Use non-flammable or water-based products where you can. [Substitution] 1.5 Keep ignition sources away: no smoking, no hot work and no running engines near flammables. [Engineering (guarding)] 1.6 Store fuels and solvents in approved, closed containers in a ventilated area away from the work. [Engineering] 1.7 Refuel equipment outdoors with the engine off and cool. [Administrative] 1.8 Keep only what you need for the day on site. [Administrative] 1.9 Store gas cylinders upright, secured and outdoors. [Administrative] 1.10 Keep a suitable fire extinguisher where flammables are used or stored. [Administrative] 1.11 Wear chemical gloves and safety glasses when pouring or mixing. [PPE]	**Medium Rare / Fatality**	Site supervisor
2	Check hoses, regulators and flashback arrestors	Flammable liquids and gases Compressed air	**High Unlikely / Fatality**	2.1 Flammable liquids and gases: see step 1 for the full controls [Administrative] 2.2 Fit whip checks (safety cables) on hose joints and check hoses before use. [Engineering] 2.3 Fit a pressure regulator and keep pressure to the tool's rating. [Engineering] 2.4 Turn off and bleed the line before disconnecting. [Administrative] 2.5 Never use compressed air to clean clothes or skin, or point it at anyone. [Administrative]	**Medium Rare / Fatality**	Site supervisor

#	Job step	Hazards	Risk before	Controls	Risk after	Responsible
				2.6 Wear safety glasses and hearing protection. [PPE]		
3	Cut with goggles, keeping sparks away from others	Burns from hot surfaces Eye injuries Welding and cutting fumes	**Critical Likely / Serious injury**	3.1 Isolate heating systems and let parts cool before you touch them. [Elimination] 3.2 Fit guards or insulation on hot pipes and equipment. [Engineering] 3.3 Mark hot items with chalk or a "HOT" sign so others know. [Administrative] 3.4 Keep a first aid kit and cool running water nearby for burns. [Administrative] 3.5 Wear heat-resistant gloves and long sleeves. [PPE] 3.6 Use tool guards and screens to stop flying particles. [Engineering] 3.7 Use dust extraction and water to keep dust out of the air. [Engineering] 3.8 Keep others out of the area when cutting, grinding or chipping. [Administrative] 3.9 Keep an eye wash station or eye wash bottles on site. [Administrative] 3.10 Wear safety glasses at all times, goggles for dust and chemicals, and a face shield for grinding. [PPE] 3.11 Remove paint, galvanising and coatings from the weld area first, or use a process that makes less fume. [Substitution] 3.12 Use fume extraction (local exhaust ventilation) close to the weld. [Engineering] 3.13 Weld outdoors or in a well-ventilated area, and keep your head out of the fume plume. [Engineering] 3.14 Never weld or cut in a confined space without testing the air and using forced ventilation. [Administrative] 3.15 Wear a powered air respirator or fitted respirator when extraction is not enough. [PPE]	**Medium Unlikely / Serious injury**	Site supervisor
4	Never cut drums or tanks that held fuel	Flammable liquids and gases Fire and emergencies	**High Unlikely / Fatality**	4.1 Flammable liquids and gases: see step 1 for the full controls [Administrative] 4.2 Provide fire extinguishers suited to the site, checked and easy to reach. [Engineering] 4.3 Keep exits and escape routes clear and signed. [Engineering] 4.4 Have a site emergency plan: alarm, exits, assembly point and emergency contacts. [Administrative] 4.5 Keep a stocked first aid kit and at least one trained first aider on site. [Administrative] 4.6 Know the site address and how emergency services get in. Call 911. [Administrative] 4.7 Go through the emergency plan with every worker and visitor at induction. [Administrative] 4.8 Keep flammable materials and rubbish away from exits and escape routes. [Administrative]	**Medium Rare / Fatality**	Site supervisor

#	Job step	Hazards	Risk before	Controls	Risk after	Responsible
5	Shut down bottles and fire watch after	Fire from hot works	**Critical Possible / Fatality**	5.1 Use cold work methods where you can, such as bolting, press fittings or cutting with a saw instead of a torch. [Elimination] 5.2 Move anything that can burn at least 10 metres away, or cover it with fire blankets. [Engineering (guarding)] 5.3 Use fire-resistant screens to stop sparks reaching people or gaps in walls and floors. [Engineering] 5.4 Get a hot work permit before starting. [Administrative] 5.5 Keep a charged fire extinguisher and fire blanket at the work spot. [Administrative] 5.6 Keep a fire watch during the work and for at least 60 minutes after you finish. [Administrative] 5.7 Check for smouldering behind walls, in ceilings and under floors before you leave. [Administrative] 5.8 Wear flame-resistant clothing, welding gloves and eye or face protection. [PPE]	**Medium Rare / Fatality**	Site supervisor

Risk key: risk = likelihood x consequence on a 5 x 5 matrix. Low, Medium, High, Critical. Work must not start while the risk after controls is high or above. Controls are listed in order of the hierarchy of controls: Elimination, Substitution, Engineering (guarding), Engineering, Administrative, PPE.

3. PPE AND PERMITS

Required PPE	Permits and plans
Welding gloves Safety goggles CSA green triangle safety boots (CSA Z195) Coveralls Respirator fit tested to CSA Z94.4 (P100 for dust, or the type the air test calls for) Face shield Safety glasses (CSA Z94.3) Hearing protection Welding helmet (CSA Z94.3)	Hot work permit

4. PLANT AND EQUIPMENT

Plant / equipment	Licence or training needed	Inspection needed	Rego / ID	Last inspected	Certificate / report
Oxy-acetylene torch					
Hand tools					

5. CREW COMPETENCY, TICKETS AND LICENCES

Crew listed at sign-on below, with ticket and licence numbers.

6. EMERGENCY ARRANGEMENTS

Emergency number	911	**First aid kit**	In the work vehicle
Fire extinguisher	In the work vehicle	**Alarm and evacuation**	Shout for help and stop work. Make the area safe and go to the assembly point. Call the emergency number and send someone to meet the ambulance.
Reporting incidents	Report serious incidents to the provincial regulator as required.		

7. MONITORING, REVIEW AND LEGAL BASIS

The supervisor and crew review this assessment at the start of the shift, whenever the task, crew or conditions change, and before any new work process starts. Re-assess and initial the changes below.

Legal basis: Provincial occupational health and safety law (e.g. Ontario OHSA and O. Reg. 213/91, BC OHS Regulation, Alberta OHS Code). Employers must identify hazards before work starts and control them, and workers must be told about them. A field level hazard assessment is done on site, at the start of each shift or task, and reviewed again when conditions change.

Keep completed hazard assessments for at least 3 years (COR auditors sample the last 12 months). Review this FLHA and re-sign whenever the task, crew or conditions change.

8. PRE-JOB CHECKS

Check	Yes	No
PPE inspected and in good condition		
Tools and equipment inspected		
Permits reviewed and posted		
Locates valid and on site (if digging)		
Barricades or warning ribbon in place		
Muster point and emergency plan reviewed with the crew		
SDS available for products used		
Working alone check-in set up (if anyone works alone)		

9. RE-ASSESSMENT WHEN CONDITIONS CHANGE

Time	What changed	New hazards	Controls	Initials

Time	What changed	New hazards	Controls	Initials

10. END OF SHIFT REVIEW

Completed at		Reviewed by	
Area cleaned up and safe		Permits closed	
Incidents or near misses		Hazards remaining	

11. REVISION HISTORY

Rev	Date	By	What changed
1	Nov 9, 2026		First issue

12. SIGN-OFF

	Name	Signature	Date	
Prepared by				
Supervisor				
Prime contractor review				Accepted for use: Yes / No

By signing below, each worker confirms they took part in this hazard assessment, it was reviewed with them before work started, and they will follow it. Stop and re-assess if anything changes.

Name	Role / company	Tickets / licences	Signature	Date

Name	Role / company	Tickets / licences	Signature	Date