FIELD LEVEL HAZARD ASSESSMENT (FLHA)

Business name

Document: FLHA-001 Rev 1
Assessed: 2026-11-09 17:46
Valid for this shift / task only
Highest risk after controls: Medium

1. BUSINESS AND JOB DETAILS

Job	Refrigerant leak repair and regas	**Start date**	Nov 9, 2026
Working hours	7:00 am to 3:30 pm	**Trade**	HVAC

2. JOB STEPS, HAZARDS AND CONTROLS

#	Job step	Hazards	Risk before	Controls	Risk after	Responsible
1	Hold the right refrigerant licence or certification for the work	Refrigerant leaks	**Medium Unlikely / Serious injury**	1.1 Recover refrigerant into an approved cylinder before opening the system. Never vent it. [Engineering (guarding)] 1.2 Ventilate closed spaces and use a leak detector during the work. [Engineering] 1.3 Refrigerant leaks: see step 3 for the full controls [Administrative]	**Low Rare / Serious injury**	Site supervisor
2	Isolate power, apply lockout and tags	Electric shock from live wiring Rules: Provincial OHS regulation, electrical safety, and CSA Z462	**Critical Possible / Fatality**	2.1 Isolate the power before any work. Do not work live. [Elimination] 2.2 Lock out and tag the isolation point with your own personal lock and danger tag. [Engineering (guarding)] 2.3 Test before you touch: prove dead at the point of work with a tested voltage tester. [Engineering] 2.4 Only licensed electricians do electrical work, to the Canadian Electrical Code and provincial rules. [Administrative] 2.5 Check for back feeds from solar, batteries and generators that can keep a circuit live after the main switch is off. [Administrative] 2.6 If energized work cannot be avoided, use a permit, a safety observer and insulated tools, following CSA Z462. [Administrative] 2.7 Wear insulated gloves, arc-rated clothing and a face shield when testing or working near live parts. [PPE]	**Medium Rare / Fatality**	Site supervisor
3	Recover refrigerant into a cylinder, never vent it	Refrigerant leaks Stored energy	**Medium Unlikely / Serious injury**	3.1 Recover refrigerant into an approved cylinder before opening the system. Never vent it. [Engineering (guarding)] 3.2 Ventilate closed spaces and use a leak detector during the work. [Engineering] 3.3 Only certified refrigeration technicians handle refrigerants, as your province requires. [Administrative] 3.4 With flammable refrigerants (such as R32 or R290), remove ignition sources and use spark-free tools. [Administrative] 3.5 Wear cold-rated gloves and safety glasses or a face	**Low Rare / Serious injury**	Site supervisor

#	Job step	Hazards	Risk before	Controls	Risk after	Responsible
				shield. [PPE] 3.6 Release or block all stored energy before work: release the pressure in pipes, tanks and hoses, bleed hydraulics, release springs, lower loads. [Elimination] 3.7 Lock out and tag all energy sources with personal locks. [Engineering (guarding)] 3.8 Put mechanical blocks or props under raised parts like buckets, tipper bodies and doors. [Engineering] 3.9 Test that the system is dead and nothing can move before you start. [Administrative] 3.10 Follow the maker's procedure, for example for garage door and roller door springs. [Administrative] 3.11 Wear safety glasses and gloves. [PPE]		
4	Braze repairs under a hot work permit with nitrogen purge	Fire from hot works Burns from hot surfaces Confined space entry Rules: Provincial OHS regulation, confined spaces	**Critical Possible / Fatality**	4.1 Use cold work methods where you can, such as bolting, press fittings or cutting with a saw instead of a torch. [Elimination] 4.2 Move anything that can burn at least 10 metres away, or cover it with fire blankets. [Engineering (guarding)] 4.3 Use fire-resistant screens to stop sparks reaching people or gaps in walls and floors. [Engineering] 4.4 Get a hot work permit before starting. [Administrative] 4.5 Keep a charged fire extinguisher and fire blanket at the work spot. [Administrative] 4.6 Isolate heating systems and let parts cool before you touch them. [Elimination] 4.7 Fit guards or insulation on hot pipes and equipment. [Engineering] 4.8 Mark hot items with chalk or a "HOT" sign so others know. [Administrative] 4.9 Keep a first aid kit and cool running water nearby for burns. [Administrative] 4.10 Wear heat-resistant gloves and long sleeves. [PPE] 4.11 Do the work from outside the space where you can, using cameras or long-reach tools. [Elimination] 4.12 Isolate and lock out all pipes, power and moving parts going into the space. [Engineering (guarding)] 4.13 Test the air for oxygen, flammable and toxic gases before entry, and keep testing during the work. [Engineering] 4.14 Use forced ventilation to keep the air clean. [Engineering] 4.15 Follow your province's confined space program with a written entry permit. Only trained workers enter. [Administrative]	**Medium Rare / Fatality**	Site supervisor
5	Pressure test, evacuate and recharge	Pressure testing Refrigerant leaks	**Medium Unlikely / Serious injury**	5.1 Test with water instead of air or gas where the system allows it. Never put water in refrigerant pipework, which is tested with dry nitrogen. [Substitution] 5.2 Keep people out of the test area with signs and barriers. [Engineering (guarding)]	**Low Rare / Serious injury**	Site supervisor

#	Job step	Hazards	Risk before	Controls	Risk after	Responsible
				5.3 Use a calibrated gauge and a relief valve set to protect the system. [Engineering] 5.4 Test to the pressure the system calls for and hold it for the set time. Never go over. [Administrative] 5.5 Release the pressure fully before tightening anything or fixing leaks. [Administrative] 5.6 Wear safety glasses or a face shield. [PPE] 5.7 Refrigerant leaks: see step 3 for the full controls [Administrative]		
6	Record refrigerant used and clean up	Poor housekeeping and waste	**Medium Likely / Minor injury**	6.1 Order materials to size and send packaging back where you can. [Elimination] 6.2 Put waste bins and chutes close to the work. [Engineering] 6.3 Clean as you go, and do a full clean up at the end of each day. [Administrative] 6.4 Keep exits, stairs and walkways clear at all times. [Administrative] 6.5 Stack materials neatly on level ground, away from edges. [Administrative] 6.6 Wear gloves when handling waste. [PPE]	**Low Unlikely / Minor injury**	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
Safety glasses (CSA Z94.3) Work gloves CSA green triangle safety boots (CSA Z195) Face shield Rubber insulating gloves Arc flash PPE (CSA Z462) Welding gloves Coveralls	Lockout permit Hot work permit

4. PLANT AND EQUIPMENT

Plant / equipment	Licence or training needed	Inspection needed	Rego / ID	Last inspected	Certificate / report
Hand tools					
Electrical test meter					
Propane torch					

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