# 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** | Solar inverter installation | **Start date** | Nov 9, 2026 |
| **Working hours** | 7:00 am to 3:30 pm | **Trade** | Solar |

## 2. JOB STEPS, HAZARDS AND CONTROLS

| # | Job step | Hazards | Risk before | Controls | Risk after | Responsible |
|---|---|---|---|---|---|---|
| 1 | Isolate AC at the electrical panel and DC at the isolators, apply lockout and tags | Electric shock from live wiring<br>Stored energy<br><br>Rules: Provincial OHS regulation, electrical safety, and CSA Z462 | **Critical<br>Possible / Fatality** | 1.1 Isolate the power before any work. Do not work live. [Elimination]<br>1.2 Lock out and tag the isolation point with your own personal lock and danger tag. [Engineering (guarding)]<br>1.3 Test before you touch: prove dead at the point of work with a tested voltage tester. [Engineering]<br>1.4 Only licensed electricians do electrical work, to the Canadian Electrical Code and provincial rules. [Administrative]<br>1.5 Check for back feeds from solar, batteries and generators that can keep a circuit live after the main switch is off. [Administrative]<br>1.6 If energized work cannot be avoided, use a permit, a safety observer and insulated tools, following CSA Z462. [Administrative]<br>1.7 Wear insulated gloves, arc-rated clothing and a face shield when testing or working near live parts. [PPE]<br>1.8 Release or block all stored energy before work: release the pressure in pipes, tanks and hoses, bleed hydraulics, release springs, lower loads. [Elimination]<br>1.9 Lock out and tag all energy sources with personal locks. [Engineering (guarding)]<br>1.10 Put mechanical blocks or props under raised parts like buckets, tipper bodies and doors. [Engineering]<br>1.11 Test that the system is dead and nothing can move before you start. [Administrative]<br>1.12 Follow the maker's procedure, for example for garage door and roller door springs. [Administrative]<br>1.13 Wear safety glasses and gloves. [PPE] | **Medium<br>Rare / Fatality** | Site supervisor |
| 2 | Mount the inverter with two people | Lifting and carrying heavy loads<br>Injury from power tools | **High<br>Likely / Lost time injury** | 2.1 Plan to avoid carrying: have materials delivered, and old items picked up, as close as possible to where they are used. [Elimination]<br>2.2 Use lighter or smaller loads: order smaller bags and shorter lengths, and drain or break down old items before | **Medium<br>Unlikely / Lost time injury** | Site supervisor |

| # | Job step | Hazards | Risk before | Controls | Risk after | Responsible |
|---|---|---|---|---|---|---|
| | | | | moving them. [Substitution]<br>2.3 Use trolleys, pallet jacks, hoists, vacuum lifters or equipment instead of carrying by hand. [Engineering]<br>2.4 Use a two-person lift for anything heavy, long or awkward. Plan the route first and clear it. [Administrative]<br>2.5 Keep the load close, back straight and no twisting. Turn with your feet. [Administrative]<br>2.6 Rotate tasks and take breaks on long lifting jobs. [Administrative]<br>2.7 Wear gloves for grip and safety boots to protect your feet. [PPE]<br>2.8 Keep all guards fitted and working. Never tie back or remove a guard. [Engineering]<br>2.9 Clamp or secure the work piece. Do not hold it by hand. [Engineering]<br>2.10 Only trained, competent people use power tools, following the maker's instructions. [Administrative]<br>2.11 Check tools before use. Unplug or remove the battery before changing blades or bits. [Administrative]<br>2.12 No loose clothing, jewellery or long hair near spinning parts. [Administrative]<br>2.13 Wear safety glasses and hearing protection. Do not wear loose gloves on drills or other rotating tools. [PPE] | | |
| 3 | Terminate DC and AC cables, testing before touching | Electric shock from live wiring<br><br>Rules: Provincial OHS regulation, electrical safety, and CSA Z462 | **Critical Possible / Fatality** | 3.1 Electric shock from live wiring: see step 1 for the full controls [Administrative] | **Medium Rare / Fatality** | Site supervisor |
| 4 | Commission the inverter and set export limits | Electric shock from live wiring<br><br>Rules: Provincial OHS regulation, electrical safety, and CSA Z462 | **Critical Possible / Fatality** | 4.1 Electric shock from live wiring: see step 1 for the full controls [Administrative] | **Medium Rare / Fatality** | Site supervisor |
| 5 | Label everything and clean up | Poor housekeeping and waste | **Medium Likely / Minor injury** | 5.1 Order materials to size and send packaging back where you can. [Elimination]<br>5.2 Put waste bins and chutes close to the work. [Engineering]<br>5.3 Clean as you go, and do a full clean up at the end of each day. [Administrative]<br>5.4 Keep exits, stairs and walkways clear at all times. [Administrative]<br>5.5 Stack materials neatly on level ground, away from edges. [Administrative]<br>5.6 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 |
|---|---|
| CSA green triangle safety boots (CSA Z195)<br>Rubber insulating gloves<br>Safety glasses (CSA Z94.3)<br>Arc flash PPE (CSA Z462)<br>Work gloves<br>Hearing protection | Lockout permit |

## 4. PLANT AND EQUIPMENT

| Plant / equipment | Licence or training needed | Inspection needed | Rego / ID | Last inspected | Certificate / report |
|---|---|---|---|---|---|
| Power drill | | | | | |
| Electrical test meter | | | | | |
| 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 |
|---|---|---|

| 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 |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |

## 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 |
|---|---|---|---|---|
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| Name | Role / company | Tickets / licences | Signature | Date |
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