



MAGNUM CONSTRUCTION SERVICES INC.

JOB HAZARD ANALYSIS (JHA) TEMPLATES & LIBRARY

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1. PURPOSE

To establish a standardized process for performing Job Hazard Analyses (JHAs) and maintaining a central JHA Library for all tasks performed under Magnum Construction Services Inc. projects.

This ensures hazards are identified and controlled before work begins — supporting the principles of **ISO 45001 §6.1**, **OSHA 1926 Subpart C**, and **ANSI Z10**.

2. SCOPE

Applies to all work activities at Magnum construction, fabrication, and maintenance sites including subcontractor operations.

Covers all tasks where exposure to physical, chemical, ergonomic, or environmental hazards exists.

3. OBJECTIVES

- Provide a systematic approach to hazard identification and control.
 - Ensure consistent field documentation of risk assessments.
 - Create a dynamic JHA Library accessible to all supervisors.
 - Promote worker engagement and hazard awareness prior to task execution.
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4. RESPONSIBILITIES

Role	Responsibilities
Project Manager	Ensures JHAs are completed and reviewed prior to starting each phase of work.
Superintendent / Foreman	Leads JHA development with crew input and verifies controls are in place.
Site Safety Officer	Reviews JHAs for completeness, retains records, and conducts field audits.
Employees / Craft Workers	Participate actively in JHA preparation and follow identified controls.
Corporate EHS Director	Maintains the JHA Library and updates templates annually or as needed.

5. JHA PROCESS FLOW

1. **Task Identification** – Break the job into logical steps.
 2. **Hazard Identification** – Identify hazards at each step.
 3. **Risk Assessment** – Assign risk level using 5×5 matrix.
 4. **Control Implementation** – Apply controls per Hierarchy of Controls.
 5. **Crew Review & Sign-off** – Ensure every worker understands the JHA.
 6. **Execution & Monitoring** – Verify compliance during task.
 7. **Record Retention** – File completed JHAs with project documentation.
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6. RISK MATRIX

Severity (S)	Description	Likelihood (L)	Description
1 – Negligible	Minor injury / no lost time	1 – Rare	Unlikely to occur in 5 years
2 – Minor	First-aid case	2 – Unlikely	Once every 1–5 years



Severity (S)	Description	Likelihood (L)	Description
3 – Moderate	Medical treatment / lost time	3 – Possible	Annual occurrence
4 – Major	Serious injury / disability	4 – Likely	Monthly occurrence
5 – Catastrophic	Fatality / multiple injuries	5 – Almost Certain	Weekly occurrence

Risk Rating = S × L

1–5 Low 6–10 Moderate 11–15 High 16–25 Critical

7. STANDARD JHA TEMPLATE (FIELD FORM)

Project: Date: Supervisor: Crew Size: Reviewed By (EHS):

Step #	Task Description	Potential Hazards	Initial Risk Rating	Control Measures (Hierarchy of Controls)	Residual Risk Rating	Person Responsible
1						
2						
3						

Crew Sign-Off:

All workers listed below confirm they have reviewed and understand this JHA.

Name Signature Date



8. JHA LIBRARY – STANDARD TASKS

Task Category	Sample JHA Reference ID	Primary Hazards	Key Controls
Excavation & Trenching	JHA-EXC-01	Cave-in, water accumulation, struck-by equipment	Sloping, shoring, barricades, daily inspections
Concrete Work	JHA-CON-02	Pinch points, silica dust, rebar impalement	PPE, dust control, rebar caps, tool inspection
Steel Erection	JHA-STE-03	Fall hazards, falling objects, rigging failure	100% tie-off, controlled lift zones, certified riggers
Scaffold Erection	JHA-SCF-04	Collapse, falls, dropped objects	Competent person inspection, guardrails, toe boards
Electrical Work (Temporary Power)	JHA-ELE-05	Shock, arc flash, trip hazards	LOTO, GFCI, cable management, arc-rated PPE
Roofing Operations	JHA-ROF-06	Falls, weather, manual handling	Fall arrest, edge protection, lifting devices
Heavy Equipment Operation	JHA-EQP-07	Struck-by, rollovers, blind spots	Spotters, seat belts, communication radios
Hot Work / Welding	JHA-HOT-08	Fire, burns, fumes	Hot Work Permit, fire watch, ventilation, PPE
Confined Space Entry	JHA-CONF-09	Oxygen deficiency, toxic gases	Air testing, permits, attendants, retrieval system
Demolition	JHA-DEM-10	Falling debris, collapse, noise	Engineering survey, exclusion zones, PPE



Task Category	Sample JHA Reference ID	Primary Hazards	Key Controls
Material Handling / Lifting	JHA-MAT-11	Back strain, crush injuries	Mechanical aids, team lifts, proper body mechanics
Formwork / Rebar Placement	JHA-FRM-12	Impalement, strain, slips	Rebar caps, gloves, housekeeping
Housekeeping & Site Clean-Up	JHA-HKP-13	Slips, trips, cuts	Sweep schedule, debris bins, PPE
Traffic Control	JHA-TRF-14	Struck-by, visibility	Flaggers, cones, high-vis apparel
Environmental / Spill Response	JHA-ENV-15	Chemical exposure, fire	Spill kits, containment, PPE

9. JHA DEVELOPMENT GUIDELINES

- Involve workers familiar with the task.
- Use manufacturer instructions and SDS for hazard data.
- Reference OSHA Subpart applicable to the activity.
- Assign **residual risk** only after controls are verified.
- Retain completed JHAs in the **Project Safety File** for five (5) years.

10. AUDIT & CONTINUOUS IMPROVEMENT

- Field audits verify JHA compliance weekly.
 - Random reviews conducted by Corporate EHS.
 - Lessons learned integrated into Library revisions quarterly.
 - Revisions tracked via **Document Control Register (MCS-ADM-04)**.
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11. APPROVAL SIGNATURES

Approved By	Title	Signature	Date
Michael Gaya	Executive Director / CEO	_____	_____
Anthony Magadino	President / Managing Partner	_____	_____
Corporate EHS Director		_____	_____