



Advanced Projects

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SITE SAFETY PLAN

1. Introduction and Purpose

This Site Safety Plan outlines the health and safety management system and procedures for all high-pressure water jetting and specialized cleaning operations conducted by Advanced Projects and Cleaning Services CC on client sites. Its primary purpose is to ensure the health and safety of all employees, contractors, visitors, and members of the public who may be affected by our operations, and to achieve full compliance with the Occupational Health and Safety Act (OHS Act) No. 85 of 1993 and its associated Regulations.

Given the inherent high-risk nature of our work, which often involves high-pressure water jetting, confined space entry, working at heights, and the use of heavy machinery, this plan serves as a critical guide for preventing incidents, managing risks, and fostering a proactive safety culture on every site.

2. Scope

This Site Safety Plan applies to all Advanced Projects and Cleaning Services CC personnel employees and contractors, all operations, activities, machinery, equipment, and materials utilized on any client industrial site where high-pressure cleaning services are rendered. This includes all phases of work, from site establishment and setup to operational execution, demobilization, and waste management.

3. Legal Compliance

Advanced Projects and Cleaning Services CC is committed to complying with all applicable legislation, including but not limited to:

1. Occupational Health and Safety Act (OHS Act) No. 85 of 1993:
2. Section 8: General Duties of Employers to their Employees.

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3. Section 14: General Duties of Employees at Work.
4. Section 37(1)(b): Acts or Omissions by Employees or Mandataries.
5. General Safety Regulations (GSR):
6. GSR 2: Safeguarding of Machinery.
7. GSR 3: First Aid.
8. GSR 5: Personal Protective Equipment (PPE).
9. General Machinery Regulations (GMR):
10. GMR 2(1): Supervision of Machinery (relevant for jetting units, vacuum trucks).
11. Driven Machinery Regulations (DMR):
12. DMR 18: Lifting Machines and Lifting Tackle (relevant for mobile lifting devices, if applicable, and operator competence).
13. Construction Regulations (CR) 2014 (as amended):
14. CR 5: Duties of Client (acknowledging client's specification).
15. CR 7: Duties of Principal Contractor and Contractor.
16. CR 8: Management and Supervision of Construction Work (CR 8(7) for Supervisor, CR 8(8) for Assistant Supervisor, CR 8(5) for Safety Officer).
17. CR 9: Risk Assessment.
18. CR 10: Fall Protection (CR 10(1)(a) for Fall Protection Plan, CR 10(1)(c) for Fall Protection Supervisor).
19. CR 13: Excavation Work (if applicable to pits/sumps for cleaning).
20. CR 16: Scaffolding (if used for access/work platforms).
21. CR 23: Construction Vehicles and Mobile Plant.
22. CR 27: Housekeeping and General Safeguarding.
23. CR 29: Fire Precautions on Construction Sites.
24. Hazardous Chemical Substances (HCS) Regulations:
25. For the handling and storage of diesel and any cleaning chemicals.
26. National Road Traffic Act: For all vehicle operations.

4. Roles and Responsibilities (Site Specific)

The following key personnel are appointed with specific health and safety responsibilities on each site:

Construction Manager (Overall Project Oversight):

1. Ultimately responsible for health and safety performance on the project.
2. Ensures resources are available for effective safety management.
3. Approves the Site Safety Plan and critical permits.

Site Supervisor (CR 8 (7) Appointee):

1. Directly manages and leads the on-site operations and team.
2. Ensures all tasks are performed safely and in compliance with the OHS Act and this plan.
3. Conducts daily toolbox talks and verifies adherence to SWPs.
4. Responsible for overall site safety, productivity, and quality.

Site Foreman:

1. Directly supervises the operational team and coordinates daily tasks.

2. Manages site equipment, including mobile lifting devices, radios, nozzles, jetting guns, and diesel supply.
3. Ensures immediate compliance with safety instructions and addresses minor deviations.
4. Reports directly to the Site Supervisor.

Site Safety Officer (CR 8(5) Appointee):

1. Assists the Site Supervisor in the control of all health and safety aspects on site.
2. Conducts site inspections, audits, and incident investigations.
3. Provides safety advice, inductions, and training.
4. Ensures legal compliance and maintains safety documentation.

Jetting Operators (Competent Person as per GMR 2(1) & DMR 18):

1. Safely operate high-pressure water jetting equipment.
2. Conduct pre-operational checks and report defects.
3. Adhere strictly to safe operating procedures, especially in confined spaces and at heights.

General Workers (OHS Act Section 14):

1. Assist Jetting Operators with hose handling, coupling support, and equipment setup.
2. Perform general site housekeeping and assist with vacuum truck operations.
3. Adhere to all safety instructions and wear required PPE.

Site Storeman:

1. Manages the temporary site store, ensuring organized and secure storage of all equipment, tools, materials, and consumables.
2. Controls diesel fuel, nozzles, parts, and maintains accurate inventory records.
3. Ensures store safety and security.

Driver (CR 23 & National Road Traffic Act):

1. Safely operates all company vehicles, including vacuum trucks and LDVs.
2. Assists with vacuum truck operations (hose deployment, waste handling).
3. Conducts pre-trip vehicle inspections and ensures compliance with traffic laws.

5. Risk Management

5.1. Hazard Identification and Risk Assessment (HIRA) (CR 9)

- A comprehensive Baseline Risk Assessment will be conducted for all typical operations of Advanced Projects and Cleaning Services CC.
- Before commencing any project, a Site-Specific Risk Assessment will be conducted, considering the unique hazards of the client's industrial site (e.g., specific tank configurations, product residues, client permits, environmental factors).
- Task-Specific Risk Assessments (e.g., daily Job Safety Analysis - JSA / Daily Safe Task Instruction - DSTI) will be conducted for each specific task, involving the team performing the work.

- All HIRAs will identify potential hazards, assess risks, and determine appropriate control measures using the hierarchy of controls (elimination, substitution, engineering, administrative, PPE).

5.2. Safe Work Procedures (SWPs) / Method Statements

Detailed SWPs will be developed for all high-risk tasks, including:

- High-Pressure Water Jetting Operations (various applications).
- Confined Space Entry, Work, and Rescue.
- Work at Heights and Fall Protection.
- Vacuum Truck Operation and Waste Disposal.
- Diesel Fuel Handling and Refuelling.
- Mobile Lifting Device Operation.
- Site Establishment and Demobilization.
- All personnel will be trained on relevant SWPs before commencing work.
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5.3. Permit-to-Work (PTW) System

A formal Permit-to-Work system will be implemented for all high-risk activities, particularly:

- Confined Space Entry.
- Work at Heights.
- Hot Work (if applicable).
- Isolation/Lock-out Tag-out (LOTO) of machinery or energy sources.
- Entry into hazardous areas.
- Permits will be issued by authorized personnel and displayed at the work site.

6. Specific Hazards and Control Measures

6.1. High-Pressure Water Jetting Hazards

Hazards:

- Lacerations, injection injuries, blunt force trauma, eye/ear damage, slips from water, hose whip.

Controls:

- Only trained and competent Jetting Operators.
- Specialized PPE: waterproof suit, high-pressure boots, gloves, face shield, helmet, hearing protection.
- "Deadman" trigger on jetting guns.
- Whip checks on all high-pressure hose connections.
- Clear exclusion zones around jetting operations.
- Regular inspection of hoses and nozzles; immediate replacement of damaged equipment.

- Controlled water run-off and drainage.

6.2. Confined Spaces (Tanks, Vessels, Silos, Kettles)

Hazards:

- Oxygen deficiency, toxic/flammable gases, engulfment, heat stress, poor visibility, falling objects (debris from cleaning).

Controls:

- Strict adherence to Confined Space Entry Permit System.
- Continuous atmospheric monitoring using calibrated gas detectors by a competent person.
- Forced ventilation (purging) before and during entry.
- Competent Confined Space Entrant, Attendant, and designated Rescue Team.
- Non-entry methods for cleaning where reasonably practicable.
- Rescue equipment (tripods, winches, breathing apparatus) readily available and inspected.
- Communication systems (radios, visual signals) maintained.
- LOTO for all connected pipework, agitators, or energy sources.
- Control of falling debris during internal cleaning (e.g., overhead protection outside, controlled cleaning methods).

6.3. Work at Heights (CR 10)

Hazards:

- Falls from unprotected edges, roofs, ladders, scaffolds, MEWPs; falling objects.

Controls:

- Approved Fall Protection Plan (FPP) for all work above 2 meters.
- Preference for fall prevention methods (e.g., guardrails, safe platforms, scaffolding - CR 16, MEWPs (Mobile Elevated Work Platforms) - CR 17). (Scissor Lifts, Boom Lifts or Cherry Pickers)
- Where prevention is not possible, implement fall arrest systems (full body harness, lanyard, energy absorber, lifeline, and secure anchorage point).
- Daily inspection of all fall protection equipment before use.
- Competent Fall Protection Supervisor (CR 10(1)(c)).

Rescue Plan:

- Specific plan for rescuing a fallen person promptly.
- Barricading and signage to warn of overhead work and falling object risks.
- Secure tools and equipment to prevent falling objects.

6.4. Mobile Diesel Trailer / Fuel Management (HCS Regulations, CR 29)

Hazards:

- **Fire**, explosion, spills, environmental contamination.

Controls:

- Diesel storage in approved, bunded containers away from ignition sources and public access.
- No Smoking signs in and around fuel storage/refuelling areas.
- Designated refuelling area with spill kits readily available.
- Use of appropriate PPE during refuelling.
- Fire extinguishers (CR 29) within easy reach.
- Trained personnel for handling and dispensing fuel.

6.5. Vacuum Truck and Company Vehicle Operations (CR 23)**Hazards:**

- Collisions, rollovers, striking personnel, hazardous waste spills.

Controls:

- Only authorized drivers with valid licenses (including PDP) for the specific vehicle type.
- Daily pre-trip inspections of all vehicles.
- Strict adherence to site speed limits and traffic management plans.
- Use of spotters/flag persons where visibility is limited.
- Maintain vehicles in good mechanical condition, immediate reporting and repair of defects.
- Safe loading and offloading procedures for collected waste.
- Secure waste tanks/containers before transport.

6.6. Temporary Site Store (Steel Container) (CR 27, CR 28)**Hazards:**

- Unauthorized access, theft, fire, crushing from improper stacking, trip hazards.

Controls:

- Secure locking mechanisms on the container.
- Organized storage of equipment, tools, and materials.
- Proper stacking of materials to prevent collapse (CR 28).
- Fire extinguishers readily available (CR 29).
- Cleanliness and good housekeeping within and around the container (CR 27).
- Designated areas for flammable materials if any are stored.
- Strict sign-in/out procedures for all equipment.

7. Emergency Preparedness and Response

1. Emergency Contact Information: Clear display of emergency numbers (ambulance, fire, police, company management, client emergency contacts).
2. Assembly Points: Designated emergency assembly points clearly communicated to all personnel.
3. First Aid (GSR 3):
4. Trained and appointed First Aiders on site.
5. Fully stocked and easily accessible first aid boxes.

6. Fire Fighting (CR 29):
7. Adequate supply of appropriate fire extinguishers for potential hazards (e.g., Class B for fuel fires).
8. Personnel trained in basic firefighting.
9. "No Smoking" policies strictly enforced.
10. Spill Response: Readily available spill kits for diesel, water, or chemical spills. Trained personnel for spill containment and cleanup.
11. Confined Space Rescue: Dedicated or designated competent rescue team for confined space emergencies, with regularly drilled procedures.
12. Fall Rescue: Established procedures and equipment for rescuing a person who has fallen from height.
13. Evacuation Procedures: Clear and practiced site evacuation procedures.

8. Training and Competency

- All employees and contractors will receive a site-specific safety induction before commencing work.
- Task-specific training will be provided for all high-risk activities (jetting, confined space entry, working at heights, operating specific machinery).
- Regular toolbox talks will reinforce safety messages and address daily hazards.
- Refresher training will be conducted as required by legislation or company policy.
- Records of all training and competency assessments will be maintained.

9. Incident Management

- All incidents (accidents, occupational diseases, near misses, dangerous occurrences) will be reported immediately to the Site Supervisor and Safety Officer.
- Incidents will be investigated thoroughly to determine root causes and implement effective corrective and preventative actions (OHS Act Section 24, GAR 9).
- Serious incidents will be reported to the Department of Employment and Labour as required by law.
- Incident trends will be analysed to identify recurring issues and implement systemic improvements.

10. Communication and Consultation

- Open and effective communication channels will be maintained between management, supervisors, employees, and client representatives regarding health and safety matters.
- Daily toolbox talks and weekly site safety meetings will facilitate consultation and feedback.
- Safety information (e.g., this plan, SWPs, permits, emergency contacts) will be readily accessible to all personnel.

11. Equipment Maintenance and Inspection

- All machinery and equipment, including high-pressure units, vacuum trucks, mobile lifting devices, and PPE, will undergo regular inspections, maintenance, and testing as per manufacturer's specifications and legal requirements.
- Defective equipment will be immediately tagged out of service, reported, and repaired or replaced by a competent person.

- Registers for equipment inspections and maintenance will be accurately maintained.

12. Review and Audit

This Site Safety Plan will be a living document, subject to review at least annually, or when:

- There are changes in legislation.
- New equipment or processes are introduced.
- Major incidents occur.
- Client requirements change.
- Results from internal or external audits indicate a need for revision. Internal audits will be conducted regularly by the Safety Officer, and external audits may be conducted as required.

Acknowledgement of Receipt and Understanding:

I, [Name of Site Supervisor], confirm that I have received, read, understand, and agree to implement the requirements of this Site Safety Plan for Advanced Projects and Cleaning Services CC.

Signature: _____ Date: _____

Acknowledgement of Receipt and Understanding:

I, [Name of Safety Officer], confirm that I have received, read, understand, and agree to assist in the implementation of this Site Safety Plan for Advanced Projects and Cleaning Services CC.

Signature: _____ Date: _____

Appendix A: Reference Documents (Examples)

1. Advanced Projects and Cleaning Services CC Health and Safety Policy
2. Advanced Projects and Cleaning Services CC Quality Policy
3. Company Organogram with Safety Appointments
4. Emergency Contact List
5. Permit-to-Work Forms (Confined Space, Hot Work, etc.)
6. Hazard Identification and Risk Assessment (HIRA) Templates
7. Job Safety Analysis (JSA) / Daily Safe Task Instruction (DSTI) Templates
8. High-Pressure Water Jetting Safe Work Procedure
9. Confined Space Entry Procedure
10. Working at Heights Procedure & Fall Protection Plan
11. Waste Management Plan
12. Vehicle Inspection Checklists
13. Equipment Maintenance Logs
14. Incident / Near Miss Reporting Forms
15. Medical Fitness Certificates

• Signature	•	• At	•
• Name	•	• Manager 16(2)	• Date
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