



## ADVANCE CERTIFICATE IN WSH LEVEL B VER.3

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### 1. What are the WSH inspection requirements for :

- a) Confined Space
- b) Use of Crawler Crane

#### WSH inspection requirements :

1. Risk Assessment: Employers must conduct thorough risk assessments to identify potential hazards and implement control measures to mitigate these risks.
2. Safety Inspections: Regular safety inspections of the workplace, machinery, and equipment are required to ensure compliance with safety standards.
3. Incident Reporting: Any workplace incidents must be reported to the Ministry of Manpower (MOM) within 10 days. Serious accidents and dangerous occurrences should be reported immediately.
4. Safety Committees: Workplaces with more than 50 employees are required to establish safety committees to oversee and review workplace safety practices.
5. Training: Employers must ensure that workers are adequately trained in safety practices relevant to their roles. This includes mandatory safety training courses.
6. Maintenance of Records: Employers must maintain records of risk assessments, safety inspections, training, and incident reports for at least three years.
7. Compliance with Codes of Practice: Employers must comply with specific codes of practice and guidelines issued by the WSH Council and MOM.

#### A) Confined Space :

1. Ventilation: Adequate ventilation must be provided to ensure that the atmosphere within the confined space remains safe for entry and work.
2. Entry Permit System: An entry permit system must be implemented for any work conducted in confined spaces. This permit must be issued by an authorized manager or supervisor and should include details of the work, safety measures, and emergency procedures.
3. Risk Assessment and Safe Work Procedures: Employers must conduct a thorough risk assessment specific to confined spaces and develop safe work procedures to control identified risks.
4. Emergency Response Plan: A comprehensive emergency response plan must be in place, including rescue procedures and the availability of rescue equipment. All personnel involved should be trained in these procedures.
5. Training: Workers entering confined spaces and those involved in rescue operations must be adequately trained in confined space safety, use of personal protective equipment (PPE), and emergency procedures.

#### B) Use of Crawler Crane :

1. Ground Conditions: Ensure that the ground conditions are stable and suitable for the crane's operation. Use appropriate mats or cribbing to distribute the crane's load and prevent sinking or tilting.
2. Registration and Certification: Crawler cranes must be registered with the Ministry of Manpower (MOM). Cranes must have a valid Certificate of Fitness issued by an Authorized Examiner (AE).
3. Load Testing: Conduct load tests periodically to ensure the crane's capability and safety. Load tests must be carried out under the supervision of an AE.
4. Pre-operation Inspection: Conduct thorough pre-operation inspections to check for any defects or malfunctions. Ensure that all safety devices and limit switches are functional.
5. Lifting Plan: Develop a comprehensive lifting plan for all lifting operations. The plan must include details of the load, lifting method, and risk assessment. The lifting plan must be approved by a competent lifting supervisor.



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2. Prepare a WSH checklist for working @ Height (Scaffold) in the attached format at Appendix I

### Working At Height [> 2m] Scaffold - Checklist

Contractor : SAMWOH

Trade : CONFINED SPACE

Inspected By : R.SUBASH

Designation :

**Inspected By: APPLICANT (WAH Supervisor) and APPOINTED SAFETY ASSESSOR**

S.No	CHECKLIST	Tick (Yes -√ ) or (No - × ) or (NA)	Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	Scaffolding components, planking/decking in good condition.								
2	All scaffold components in place and defect.								
3	Competent person in-charge of erection/inspection.								
4	Scaffold Is level and plumb.								
5	Scaffold leg braced, with braces properly a hatched								
6	Grand railing in place on all open side and ends.								




7	Scaffold secured to structure to prevent movement							
8	Area around scaffold has been tightened							





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9	Scaffold control tag has been signed and approved for use.							
10	If inspection reveals scaffold is unsafe							
	Applicant Signature:							
	Safety Assessor Signature:							

**3. Perform a WSH Inspection at your workplace, Identify the Non-conformances and recommend the Necessary Corrective Action for the same as per attached format in Appendix II**

S/no	Location /zone	Unsafe/ event as*	Finding/description	Corrective and preventive action	Status (Outstanding/ complete/ ongoing/ target)
1	402 B1		Poor housekeeping.	Immediately Do Proper housekeeping.	15/07/2024 Completed
2	403 L1		rebar not cover	Covered by PVC pipe.	15/07/24 Completed
3	403 B1		Damaged Cable Plug.	Provide New plug.	15/07/24 Completed

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4	302B Pile cap		No barricade and no Signage.	Proper barricade and display warning signage	11/07/24 Completed
5	302C level 1		Unsafe, barricade missing, never hock harness	Provide scaffolding and proper barricade	28/07/24 completed

### Elements for conformance:-

- Machine guarding:-**  
 Ensure compliance with WSH requirements for guarding of machines with fast or slow moving rotary parts.
- Material handling:-**  
 Ensure proper handling of materials, especially hazardous or heavy materials, to reduce the risk of incident occurrence.



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- **Personal Protective Equipment:-**  
Ensure proper and relevant use of Personal Protective Equipment, e.g. chemical glove for handling of hazardous chemicals, leather gloves for handling of metal or sharp materials, etc.
- **Lockout / tag out:-**  
Ensure correct implementation of lockout / tag out, in accordance with WSH requirements e.g. locking of machinery, together with tag provided, etc.
- **Emergency equipment:-**  
Ensure emergency equipment (e.g. fire extinguisher, hose reel, FM 200 fire suppression system, etc.) is in good condition and expired for effective response to emergency situations.
- **Fire protection:-**  
Ensure provision of fire protection equipment (e.g. fire retardant doors, fire resistant paint, fire blanket) for relevant work activates to minimize damage from fire occurrence.
- **Power tools:-**  
Ensure that there is no leakage of electricity and the voltages are in compliance with WSH requirements.
- **Chemicals:-**  
Ensure proper storage and handling in accordance with the chemical's Safety Data Sheet (SDS) and WSH legal requirements.
- **Safe work practices:-**  
Ensure that safe work practices are implemented and that all personnel comply with the safe work practices to eliminate the risk of incident occurrence.



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### **4. Describe and explain various WSH audits in your project.**

As defined in ISO 45001 Occupational safety and health management system, audit is a systematic, Independent and documented process for obtaining and evaluating evidence to determine the extent to which criteria set by the organization have been fulfilled.

Audits are dividing in to 2 types: internal and external/independent audits. Audits determine if corrective and preventive action have been implemented effectively and whether they are suitable to achieve the organization's objectives.

#### **Management system audit.**

System audits, ISO 45001 OH&S management system standard audit.

#### **Aspects of inspection:**

- Do the organization's documentation procedures comply with WSH legal legislations?
- Are the WSH policy and procedures sufficient to identify hazards and risk at the workplace?
- Are risk assessment procedure adequate to elimination hazards and enable personnel to work safety at the workplace?
- Are procedure to plan, develop, implement, monitor and review countermeasures adequate?
- Have implemented corrective and preventive action been complied with and reviewed for further improvement.

#### **Compliance audit**

This most basic audit and it checks if the organization's health and safety policy has been properly implemented, whether it complies with WSH legal requirements and whether there are





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areas for improvement. This audit also assesses the effectiveness of management development programs whether they help employees comply with the organization's rules and standards the three main consideration of the compliance audit.

- Conformance with plan for implementation of corrective and preventive action
- Documentation of corrective action and preventive actions.
- Continuous training for personal.

### **Corporate WSH audit.**

Corporate WSH audits are usually incorporated by MNC (Multinational Corporations), statutory boards, government authorities and overseas affiliates where corporate function play important roles. The corporation headquarters (HQ) would develop the WSH policy, objectives, aims and missions and disseminate them to the rest of company.

#### Specific Purpose audit

This audit is conducted for specific works activities. The focus is on activities with high risk or high accident rates. Example of specific purpose audit.

- Machine guarding audit
- Hot work or gas cutting and welding audit
- Working at height audit

### **5. Describe the Key indicators that your performance report shall have**

#### **WSH parameters measurement records**

WSH parameters measuring records include relevant calibrated equipment's to achieve accuracy and effectiveness, require expert to measure and analyze the record

- ✓ Number of fatalities



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- ✓ Number of lost-time injuries
  - ✓ Number of lost workdays
  - ✓ Number of man-hours worked
  - ✓ Injury rate per 100,000 man hours
  - ✓ Lost day rate per 100,000 man hours
  - ✓ Number of medical treatment cases
  - ✓ Number of near miss cases
  - ✓ Number of dangerous occurrences
  - ✓ Number of first-aid cases
  - ✓ Number of occupational disease cases
- 
- **Inspection reports**  
Inspection report showing non – conformance, unsafe condition, implemented corrective and preventive actions reported by respective persons – in – charge. These inspection reports will be submitted to the safety department comment or approval
  - **Audit reports**  
External or internal audit reports are compared with previous audit reports to monitor the WSH status of the working environment.
  - **Noise monitoring reports**  
Noise levels as indicated on noise meters are monitored. Rectification is carried out for any non – compliance with WSH legal regulations or requirements.
  - **Air monitoring reports**  
Air meter readings alert the organization of any atmospheric hazard.
  - **Performance indicators and trends**  
Performance indicators and trends reflect WSH conditions over a time period and reveal the organizations commitment towards improving working environment and behaviors. These data can be used as documentary proof during inspection by government authorities (e.g. MOM, NEA) and for auditing purposes.



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- **Equipment inspection records**

Equipment needs to be maintained to ensure its effectiveness. Maintenance program should be established for inspection of equipment's. These reports can be documentary proof during government inspections and for auditing purposes.

- **Calibration records**

Calibration records of monitoring equipment are collected for documentation. These records also serve as evidences for government inspection and auditing purposes.