

Construction Safety Guidelines No. 30

Risk Assessment

1. General Requirements

- The main contractor will ensure that the risk assessments are undertaken for all routine & non-routine activities.
- Risk assessment should include the activities of all personnel (including subcontractors & visitors) having access to work place. Shall also include activities pertaining to the facilities provided at the workplace.
- All risk assessments must be recorded and a register of risk assessments must be available in the main contractor's project office.
- All risk assessments must be signed and dated by the person undertaking the assessment. It shall be authorised by the main contractor and approved by the consultant.
- The main contractor must ensure that they have a written procedure to cover the identification of hazards and assessment of risk.

2. Communication of Risk Assessment Information

- The main contractor will ensure that the information contained in the risk assessments is communicated to all concerned before starting of the work.
- Communications should be in the form of inductions, toolbox talks or worker safety briefings.
- Record of communication shall be maintained.

3. Review of Risk Assessments

The main contractor will ensure that the risk assessments are regularly reviewed and kept up to date. Period of review may vary depending on

- The nature of the hazard
- The magnitude of the risk
- Any changes from the normal operation
- Changes in the storage of materials / chemicals etc.

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4. Steps to be followed for the Risk Assessment

The following steps to risk assessment are internationally recognized as the procedure to follow when undertaking risk assessments:-

- Identification of hazards.
- Evaluation of risk with the existing control measures in place.
- Evaluation of the tolerability of residual risk.
- Identification of any additional risk control measures needed.
- Evaluation of the risk control measures are sufficient to reduce the risk to a tolerable level and shall be continuously monitored.

- Risk assessment shall also include any expansion, contraction or restructuring of the project.

5. Format for the Risk Assessment

This format can be used for the risk assessment. Companies can follow other formats meeting the above criteria.

Sr. No	Activity	Hazards Involved	Identified at risk (Property People)	Initial Risk			Control Measures	Residual Risk			Remarks
				L	S	R		L	S	R	

Risk Rating		Likelihood		
		3	2	1
Severity	3	9	6	3
	2	6	4	2
	1	3	2	1

6 & 9 = High Risk
3 & 4 = Medium Risk
1 & 2 = Low Risk
Risk Rating = S X L = R

Risk Rating	
Severity	
3	Major Injury/ Pollution/ Damage
2	Minor / Pollution/ Damage/ Loss
1	Injury / low Damage / Loss
Likelihood	
3	Likely
2	Possible
1	Never / Very Unlikely