rev. Nov. 1, 2023

Machine & Process Safety Assessment Group
A division of Airline

Learn More Today!
www.mpsasafety.com

Machine Risk Assessment

Safety Consultant Services

Are You Prepared to Tackle Safety Hazards?

Our TÜV Certified Safety Consultants thoroughly measure safety hazards by their severity, exposure, and avoidance with a machine risk assessment. We utilize industry standards such as ANSI-B11 and ISO 13849.



Key Benefits:

- Team Based Approach
- Identify Hazard
- Evaluate Risk Level
- Mitigate Safety Risks
- Required for Compliance
- Protect Your Workforce

See other side for our process!

Our Process:

Team Based Approach

Thorough Hazard ID

Risk Evaluation & Prioritization

Solution Recommendations

Required for Compliance

Machine Safety Risk Assessment Includes:

1. Document & Training Assessment
2. Control Reliability Assessment
3. Task-Based Assessment
4. Risk Prioritization Matrix

▼ Control Reliability Assessment
Identify hazardous energy sources affecting control reliability. Address electrical, pneumatic, and hydraulic components and circuits for safety.

Likelihood of Occurrence or Exposure	Severity of Injury or Illness Consequence and Remedial Action			
	CATASTROPHIC Death or permanent total disability	CRITICAL Disability in excess of 3 months	MARGINAL Minor injury, lost workday accident	NEGLIGIBLE First Aid or Minor Medical Treatment
Frequent Likely to Occur Repeatedly	HIGH Operation not permissible	HIGH Operation not permissible	SERIOUS High Priority action	MEDIUM Take Remedial action at appropriate time
Probable Likely to occur several times	HIGH Operation not permissible	HIGH Operation not permissible	SERIOUS High Priority action	MEDIUM Take Remedial action at appropriate time
Occasional Likely to occur sometime	HIGH Operation not permissible	SERIOUS High Priority action	MEDIUM Take Remedial action at appropriate time	LOW Risk Acceptable: Remedial Action Discretionary
Remote Not likely to occur	SERIOUS High Priority action	MEDIUM Take Remedial action at appropriate time	MEDIUM Take Remedial action at appropriate time	LOW Risk Acceptable: Remedial Action Discretionary
Improbable Very unlikely – may assume exposure will not happen	MEDIUM Take Remedial action at appropriate time	LOW Risk Acceptable: Remedial Action Discretionary	LOW Risk Acceptable: Remedial Action Discretionary	LOW Risk Acceptable: Remedial Action Discretionary

Example

◀ Task-Based Assessment
Review methods, interactions, and procedures for setup, changeover, servicing, and cleaning of equipment. Enhance safety protocols and practices.

Document & Training Assessment ▲
Review and evaluate all equipment usage documentation, including training manuals and maintenance logs.

Risk Prioritization Matrix ▲
Prioritize hazards based on risk due to exposure duration and potential injury severity.

MPSA™
Machine & Process Safety Assessment Group
A division of Airline

Learn More Today!
www.mpsasafety.com

rev. Nov. 1, 2023