

Machine Safety Audit and Certification



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What is Machine Safety Audit and Certification?

Machine Safety Audit & Certification is a process designed to ensure the functional safety of a machine. Throughout the entire life span of machine, safety must be considered beginning from the initial concept, risk assessment, design and engineering, operation and even to decommissioning. During the lifespan it's crucial that no harm, risk or hazard should happen/occur to neither man, machine nor the environment. The aim of this safety audit is to determine measures, eliminating hazards or reducing the risk by applying Functional Safety to the machine. This is carried out by identifying the possible failure or faults that could lead to hazard in the machine which must therefore be analysed in detail.

In order to achieve such analysis, various areas such as technology, architecture and risk classification of a machine have to be considered. These requirements are identified in different standards. Various such standards are defined which must be taken into consideration by the manufacturers if they want to place their machine on the market.

The basic idea of this standard is to identify the functional risk and hazards which can occur by the machine in future. To eliminate such disasters in future Machine safety audit is done. For specific machines such as lifting machine, compressor, pressure vessels, etc does not comes under this standard, it requires special prerequisite defined in factory act.

What are the Focus Points of Machine Safety Audit and Certification?

- Identifying the Risks which can be caused, and eliminating the cause
- Carrying out Machine safety Inspection
- Ensure no hazards occur during functioning of machine
- Making sure the Machine is safe to work
- Identifying Electrical hazards
- Analysing Mechanical Hazards

What are the Document Requirements for Machine Safety Audit and Certification?

- Machine related risk assessment
- PPE list
- Mechanical hazards, electrical hazards, etc.
- Maintenance and repair record
- Training records, etc.
- Machine Work Instruction

How will Machine Safety Audit and Certification benefit your organization?

- This will make sure no harm is caused to the employee working in your company.
- Provide a Safe work area.
- Verification of Machine parts and current inventory
- Eliminating old machines and devices that do not meet production and health and safety requirements.
- Modernizing the machine.
- Eliminating / Limiting of Occupational Hazard.

Which organizations are eligible for Machine Safety Audit and Certification?

Any Organizations with machines which can be harmful during functioning are eligible for Machine Safety Audit and Certification.

Exception: Not all machines come under this audit, lifting machines, pressure vessels, etc. are exceeded from this standard. This machines required special requirements as mentioned in factory act.

How will PQSmitra help you with Hassle - free process for Safety Audit?

PQSmitra team has a highly experienced & expertise Machine safety auditors which will conduct machine safety audit at your organization to ensure the compliance to the requirements of the national & international standards.

- Initial visit & opening meeting with client team.
- Review machine layout and Working of machine.
- Risk identification which can be caused while functioning of machine.
- Take preventive actions to reduce / eliminate risk.
- Review Documents related to Machine Safety Audit.
- Discussions with employee regarding machine safety and conduct training.
- Presentation of safety related improvements points or modification required in machine.
- Discussion of findings to the client in closure meeting.
- Submission of report to client.



PQSmitraService Features appreciated by clients



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