MAINTENANCE STANDARDS AND HOW TO APPLY THEM



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Introduction

Maintenance produces reliable results only when it follows agreed standards rather than individual habit. A torque value applied by feel, a lubrication interval set by memory, or a permit signed without inspection creates variation, and variation creates failures. This Maintenance Standards and How to Apply Them Training Course gives maintenance engineers, supervisors, and technicians a complete working method for building and using standards on the plant floor. Participants learn standardised work instructions, maintenance procedures, ISO 55000 asset management principles, EN 13306 maintenance terminology, ISO 14224 reliability data collection, and the audit routines that keep standards alive.

Maintenance Standards and How to Apply Them Course Objectives

- Apply ISO 55000 asset management principles to maintenance practice.
- Use EN 13306 maintenance terminology correctly and consistently.
- Write standardised work instructions technicians can follow.
- Apply ISO 14224 for reliability and maintenance data collection.
- Set lubrication, torque, alignment, and inspection standards.
- Apply safety and permit-to-work standards to maintenance tasks.
- Build technical documentation and revision control systems.
- Apply condition monitoring standards to critical equipment.
- Audit maintenance work against the standard and close gaps.
- Measure standards compliance and its effect on availability and cost.

Course Methodology

- Facilitated sessions built on real work instructions, procedures, and audit findings.

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- Case workshops on failures caused by non-standard practice.
- Standard writing and revision control exercises.
- Inspection and condition monitoring standard application labs.
- Group exercise on a maintenance standards implementation plan.

Who Should Take This Course

- Maintenance engineers and reliability engineers.
- Maintenance supervisors and team leaders.
- Planning and standards documentation staff.
- Technicians and craftsmen in mechanical and electrical trades.
- Quality, audit, and compliance officers.
- Asset and facility managers.

Maintenance Standards and How to Apply Them Course Outlines

Day 1: Standards Framework and Terminology

- Why standards matter in maintenance and what they deliver.
- ISO 55000 asset management principles and their maintenance link.
- EN 13306 maintenance terminology and consistent language.
- IEC and ISO standards relevant to maintenance practice.
- Mandatory versus internal standards and how they interact.
- Hierarchical documentation structure: policy, procedure, instruction.
- Roles, responsibilities, and competence requirements.

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Day 2: Work Instructions and Maintenance Procedures

- Anatomy of a usable work instruction.
- Task analysis and step sequencing.
- Writing clear, unambiguous steps with acceptance criteria.
- Tools, materials, and safety notes in the instruction.
- Revision control, approval, and distribution.
- Job aids, visual standards, and photo-based instructions.
- Training technicians to the standard and verifying competence.

Day 3: Technical Standards in Practice

- Lubrication standards: types, quantities, and intervals.
- Torque, tension, and fastening standards.
- Alignment, balancing, and clearance standards.
- Inspection standards and acceptance criteria.
- Welding, fabrication, and repair standards.
- Condition monitoring standards: vibration, temperature, and oil.
- Storage and preservation standards for spares and equipment.

Day 4: Safety, Permits, and Compliance

- Permit-to-work systems and isolation standards.
- Lock-out/tag-out and energy isolation practice.
- Confined space, work at height, and hot work standards.
- Risk assessment and job safety analysis.
- Personal protective equipment standards.

- Environmental and waste handling standards for maintenance.
- Regulatory reporting and record keeping.

Day 5: Auditing, Compliance, and Improvement

- Audit types: compliance, process, and system audits.
- Building a maintenance audit checklist from the standards.
- Sampling work orders and verifying execution.
- Recording findings and corrective action closure.
- Measuring standards compliance rate.
- Linking compliance to availability, rework, and cost.
- Building a standards implementation and sustainment roadmap.

Conclusion

By successfully completing the Maintenance Standards and How to Apply Them Training Course, participants will have acquired a practical command of ISO 55000 asset management principles, EN 13306 maintenance terminology, standardised work instruction writing, technical standards for lubrication, torque, alignment and inspection, ISO 14224 reliability data practice, permit-to-work standards, and maintenance auditing. They will leave able to write standards technicians actually use, audit against them with evidence, and show the effect on reliability and cost. Gentex Training Center delivers this programme with maintenance and reliability practitioners working on live plant.

FAQs for the Maintenance Standards and How to Apply Them course

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Q1 What is the "Maintenance Standards and How to Apply Them" course about?

It is a five-day programme on building maintenance standards and making them work on the plant floor. It covers asset management principles, maintenance terminology, work instruction writing, technical standards for lubrication, torque, alignment and inspection, safety and permit standards, and auditing.

Q2 What are the key benefits of the "Maintenance Standards and How to Apply Them" course?

Participants cut failures caused by inconsistent practice, remove variation between shifts and technicians, and produce evidence that satisfies audit and regulatory review. They also gain a compliance measure that connects standards discipline to availability and rework cost.

Q3 What skills will I gain from the "Maintenance Standards and How to Apply Them" course?

You will gain maintenance standards framework and terminology application, standardised work instruction and procedure writing, technical standards application for lubrication, torque, alignment and inspection, and maintenance auditing, compliance measurement, and improvement planning.

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Q4 What tools, methods, or standards are covered in the "Maintenance Standards and How to Apply Them" course?

The course works with ISO 55000 asset management principles, EN 13306 maintenance terminology, relevant IEC and ISO maintenance standards, hierarchical documentation structure covering policy, procedure and instruction, task analysis and step sequencing, acceptance criteria and job aids, revision control and approval practice, competence verification, lubrication standards for types, quantities and intervals, torque, tension and fastening standards, alignment, balancing and clearance standards, inspection standards, welding and repair standards, condition monitoring standards for vibration, temperature and oil, storage and preservation standards, ISO 14224 reliability and maintenance data collection, permit-to-work and isolation standards, lock-out/tag-out practice, confined space, work at height and hot work standards, job safety analysis, audit checklist design, work order sampling, corrective action closure, and standards compliance rate measurement.

Q5 How is the "Maintenance Standards and How to Apply Them" course applied in real-world practice?

Teams apply it when writing a work instruction for a critical pump overhaul, setting lubrication standards for a compressor fleet, auditing maintenance execution against the standard, closing a permit-to-work finding, verifying technician competence after training, and reporting compliance rate alongside rework and availability.