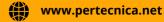


TRAINING ON MACHINERY





7th Floor, Dega Towers, Rajbhavan Road, Hyderabad





ABOUT US

Welcome to Pertecnica, where knowledge meets expertise! As a leading employee training institute, we specialize in a diverse range of sectors, providing top-notch induction trainings, refresher courses, and elevating skills through our upgradation programs. We take pride in offering mandatory trainings that ensure compliance and safety trainings across various sectors/industries especially in the dynamic sector of Machinery . At Pertecnica, we are your partners in growth, fostering a culture of continuous learning and development. Join us on a transformative journey.





+91 7842430123 🖄 contact@pertecnica.in



7th Floor, Dega Towers, Rajbhavan Road, Hyderabad



www.pertecnica.net



INDUCTION TRAININGS - Machinery

Machine Operation and Safety Induction:

- Equipment Familiarization: Thorough training on the various types of machinery used in the industry, including their components, functions, and capabilities.
- Safe Operating Procedures: Comprehensive instruction on the proper and safe operation of machinery, emphasizing adherence to established procedures.
- Emergency Shutdown Protocols: Training on quickly and safely shutting down machinery in emergency situations to prevent accidents.

Machinery Maintenance and Inspection Training:

- Preventive Maintenance Practices: Instruction on implementing regular preventive maintenance routines to ensure machinery operates at optimal efficiency.
- Inspection Techniques: Training employees in conducting thorough inspections of machinery components to identify and address potential issues.
- Lubrication and Fluid Management: Guidance on proper lubrication methods and fluid management to enhance machinery performance and longevity.







Health and Safety Induction for Machinery Workers:

- Personal Protective Equipment (PPE) Usage: Training on the selection, proper use, and maintenance of PPE to ensure the safety of employees during machinery operations.
- Workplace Ergonomics: Instruction on maintaining proper body mechanics and ergonomic practices to prevent musculoskeletal issues related to machinery work.
- Chemical Handling Safety: Awareness and training on the safe handling and storage of chemicals often associated with machinery maintenance.

<u>Quality Control and Assurance Training:</u>

- Understanding Quality Standards: Education on industryspecific quality standards and the importance of maintaining high-quality standards in machinery production.
- Inspection and Testing Protocols: Training on conducting inspections and tests to ensure machinery products meet specified quality criteria.
- Non-Conformance Reporting: Guidance on reporting and addressing any deviations from quality standards in machinery production processes.

Automation and Robotics Integration Induction:

- Introduction to Automation Technologies: Comprehensive training on the principles and applications of automation technologies in the machinery industry.
- Robotic Programming Basics: Instruction on the fundamentals of programming and operating robotic systems integrated into machinery.
- Safety Measures in Automated Systems: Training on safety protocols specific to working with automated machinery and robotics.





Environmental Sustainability in Machinery Operations:

- Resource Efficiency: Instruction on adopting sustainable practices to optimize resource utilization in machinery production.
- Waste Management: Training on proper waste disposal and recycling methods to minimize the environmental impact of machinery operations.
- Energy Conservation Practices: Guidance on implementing energy-efficient measures in machinery processes to reduce overall environmental footprint.

Customer Service and Communication Skills Training:

- Understanding Customer Requirements: Training employees to understand customer needs and expectations in the context of machinery products and services.
- Effective Communication Skills: Developing effective communication skills to facilitate collaboration within the team and with customers.
- Resolving Customer Issues: Instruction on addressing customer concerns and resolving issues related to machinery products or services.

Regulatory Compliance and Legal Awareness:

- Industry Regulations: Education on relevant industry regulations and standards governing machinery production and operations.
- Occupational Health and Safety Compliance: Training on complying with health and safety regulations to create a secure working environment.
- Legal Responsibilities: Understanding legal obligations related to machinery operations, including product safety and liability.







REFRESHER TRAININGS- Machinery

Advanced Machine Operation:

- Operational Updates: Providing updates on the latest features, technologies, and advancements in machinery to enhance operational efficiency.
- Troubleshooting Techniques: Refreshing employees on troubleshooting skills to quickly identify and address issues during machine operation.
- Efficiency Improvement Strategies: Training on advanced techniques to optimize machine performance and reduce downtime.

Machinery Safety Review:

- Safety Protocol Updates: Reinforcing and updating employees on the latest safety protocols and regulations related to machinery operations.
- Emergency Response Drills: Conducting refresher drills on emergency shutdown procedures and evacuation protocols to ensure quick and safe responses.
- Risk Assessment Skills: Enhancing employees' ability to assess and mitigate risks associated with machinery operations.







Precision Maintenance Practices:

- Advanced Maintenance Techniques: Updating employees on the latest maintenance practices and technologies to maximize machinery reliability.
- Condition Monitoring: Refreshing skills in condition monitoring techniques to identify potential issues before they escalate.
- Predictive Maintenance Tools: Training on using predictive maintenance tools to schedule maintenance activities more efficiently.

Quality Assurance and Inspection Review:

- Latest Quality Standards: Providing updates on any changes to industry quality standards and ensuring employees understand and comply with them.
- Advanced Inspection Methods: Refreshing skills in advanced inspection techniques to maintain and improve product quality.
- Root Cause Analysis: Training on conducting thorough root cause analysis for any quality-related issues.

Digitalization and Industry 4.0:

- Smart Manufacturing Technologies: Updating employees on the latest digitalization trends, including IoT, data analytics, and connectivity in the machinery industry.
- Cybersecurity Awareness: Refreshing knowledge on cybersecurity measures to protect machinery systems from potential threats.
- Integration of Smart Technologies: Training on integrating and utilizing smart technologies to enhance machinery performance and monitoring.







Environmental Sustainability in Machinery Operations

<u>Review:</u>

- Green Practices Update: Providing updates on environmentally friendly practices and technologies applicable to machinery operations.
- Waste Reduction Strategies: Refreshing skills in waste reduction techniques and promoting sustainability in day-to-day operations.
- Energy Conservation: Training on advanced methods to conserve energy and reduce the environmental impact of machinery processes.

Advanced Automation and Robotics:

- Updates on Automation Trends: Keeping employees informed about the latest advancements and trends in automation and robotics.
- Programming Enhancements: Refreshing programming skills for automated systems, including updates on programming languages and tools.
- Safety in Automated Environments: Reinforcing safety measures specific to working with advanced automation and robotic systems.

Customer Service Excellence:

- Customer Relationship Building: Refreshing skills in building and maintaining strong customer relationships within the machinery industry.
- Effective Communication: Enhancing communication skills for addressing customer queries and concerns promptly and professionally.
- Problem-Solving and Conflict Resolution: Training on effective problem-solving and conflict resolution techniques to enhance customer satisfaction.







SKILL UPGRADATION PROGRAMME - Machinery

Advanced Machinery Operation Skills Program:

- Sophisticated Equipment Handling: Providing advanced training on handling complex machinery and equipment to enhance operational skills.
- Automation Integration: Offering instruction on integrating and operating automated systems, improving efficiency and reducing manual intervention.
- Real-time Monitoring Techniques: Training on utilizing advanced monitoring tools for real-time analysis of machinery performance.

Precision Maintenance and Troubleshooting Masterclass:

- Advanced Maintenance Strategies: Offering in-depth training on advanced maintenance techniques to prolong machinery lifespan and reduce downtime.
- Root Cause Analysis Skills: Focusing on enhancing employees' ability to identify and address the root causes of machinery issues.
- Predictive Maintenance Implementation: Training on implementing predictive maintenance practices using advanced technologies.







Digitalization and Industry 4.0 Certification:

- IoT and Connectivity Training: Providing knowledge on Internet of Things (IoT) and connectivity applications in the machinery industry.
- Data Analytics Proficiency: Developing skills in data analytics for extracting valuable insights from machinery performance data.
- Smart Manufacturing Practices: Training on adopting Industry 4.0 principles, including smart manufacturing and digital transformation.

Advanced Quality Assurance and Inspection Techniques:

- Statistical Process Control (SPC): Offering training on utilizing SPC tools for continuous quality monitoring and improvement.
- Non-Destructive Testing (NDT): Developing expertise in advanced NDT methods to ensure thorough inspection without damaging components.
- Advanced Quality Metrics Analysis: Focusing on analyzing complex quality metrics and implementing strategies for improvement.

Robotics and Automation Skills Enhancement:

- Advanced Robotic Programming: Providing hands-on training for employees to master advanced robotic programming languages.
- Collaborative Robotics (Cobots): Training on integrating and working collaboratively with robotic systems to enhance efficiency.
- Human-Robot Interaction Training: Focusing on skills required for effective communication and collaboration between humans and robots.







Environmental Sustainability in Machinery Operations

Program:

- Green Manufacturing Practices: Providing insights into environmentally friendly manufacturing practices to reduce the industry's ecological footprint.
- Energy-efficient Operation: Training on optimizing machinery operations for energy conservation and sustainability.
- Waste Reduction Techniques: Focusing on techniques to minimize waste generation and improve overall environmental impact.

Advanced Automation and Control System Training:

- PLC Programming Mastery: Offering advanced training on Programmable Logic Controller (PLC) programming for precise control.
- SCADA System Integration: Training on integrating and utilizing Supervisory Control and Data Acquisition (SCADA) systems for process control.
- Machine Vision System Expertise: Developing skills in implementing machine vision systems for quality control and automation.

Customer-Centric Machinery Solutions Certification:

- Customer Needs Analysis: Training on advanced techniques for understanding and analyzing customer requirements.
- Tailored Machinery Solutions: Focusing on customizing machinery solutions to meet specific customer demands and industry trends.
- Effective Client Communication: Enhancing communication skills to build strong customer relationships and provide excellent service.









MANDATORY TRAINING - Machinery

Safety Compliance Certification:

- OSHA Standards and Regulations: Ensuring employees are well-versed in Occupational Safety and Health Administration (OSHA) standards relevant to machinery operations.
- Emergency Response Protocols: Training on proper response procedures during emergencies, including shutdown protocols and evacuation strategies.
- Personal Protective Equipment (PPE) Usage: Ensuring understanding and correct usage of required PPE to mitigate workplace hazards.

ISO 9001 Quality Management System Training:

- Quality Standards Awareness: Providing comprehensive training on ISO 9001 standards for quality management in the machinery industry.
- Documented Procedure Compliance: Ensuring employees understand and adhere to documented procedures for quality assurance.
- Continuous Improvement Practices: Focusing on methodologies for continuous improvement to enhance overall product quality.







Machinery Operation and Maintenance Basics:

- Fundamental Machinery Handling: Training on basic machinery operation, including startup, shutdown, and routine handling procedures.
- Preventive Maintenance Protocols: Instilling the importance of regular maintenance checks to prevent machinery breakdowns and ensure longevity.
- Safety Checks and Inspections: Teaching employees to conduct pre-operation safety checks and routine inspections.

Regulatory Compliance Workshop:

- Environmental Regulations: Ensuring adherence to environmental regulations governing machinery operations.
- Health and Safety Compliance: Covering regulatory requirements related to workplace health and safety.
- Legal and Ethical Standards: Training on legal and ethical considerations in the machinery industry, emphasizing compliance.

Ethical Conduct and Professionalism Training:

- Code of Conduct Awareness: Familiarizing employees with the company's code of conduct and ethical guidelines.
- Professional Communication Skills: Enhancing interpersonal and communication skills to maintain professionalism in workplace interactions.
- Conflict Resolution Techniques: Training on effective conflict resolution methods to address workplace issues.







Machinery Calibration and Measurement Standards:

- Calibration Procedures: Providing detailed instruction on machinery calibration processes to ensure precision in measurements.
- Metrology Standards: Training on adherence to metrology standards for accurate measurement in machinery operations.
- Instrumentation Handling: Ensuring employees are proficient in using and maintaining measuring instruments accurately.

Legal Compliance in Machinery Operations:

- Intellectual Property Awareness: Training on recognizing and respecting intellectual property rights related to machinery designs and innovations.
- Contractual Obligations: Understanding and adhering to contractual obligations in machinery manufacturing and sales.
- Data Protection and Privacy: Covering legal aspects related to data protection and privacy in the machinery industry.

Effective Communication and Team Collaboration Workshop:

- Interdepartmental Collaboration: Promoting effective communication and collaboration among different departments involved in machinery processes.
- Team Building Techniques: Enhancing teamwork skills to foster a collaborative work environment.
- Communication with Stakeholders: Training on clear and concise communication with internal and external stakeholders.







SAFETY TRAINING - Machinery

Machine Guarding and Safety Certification:

- Understanding Machine Hazards: Comprehensive training on recognizing and understanding various hazards associated with machinery operation.
- Machine Guarding Protocols: Ensuring employees are well-versed in the proper use and maintenance of machine guards for enhanced workplace safety.
- Emergency Shutdown Procedures: Training on rapid and effective emergency shutdown procedures to minimize risks during hazardous situations.

Lockout-Tagout (LOTO) Procedures Workshop:

- LOTO Principles and Regulations: In-depth training on the principles and regulatory requirements of Lockout-Tagout procedures.
- Equipment Isolation Techniques: Teaching employees how to effectively isolate machinery from energy sources during maintenance to prevent unexpected startup.
- Verification and Testing: Training on proper verification and testing steps to ensure machinery is safely de-energized.







Risk Assessment and Job Safety Analysis (JSA):

- Identifying Workplace Risks: Providing skills to identify potential risks and hazards associated with specific machinery and tasks.
- JSA Documentation: Training on creating and utilizing Job Safety Analysis documentation for each machineryrelated task.
- Implementing Risk Mitigation Measures: Focusing on proactive measures to mitigate identified risks and enhance overall workplace safety.

Electrical Safety Certification:

- Safe Electrical Practices: Comprehensive training on safe electrical practices when working with machinery and related components.
- Understanding Electrical Systems: Ensuring employees understand the basics of electrical systems relevant to machinery operation.
- Personal Protective Equipment (PPE) for Electrical Work: Emphasizing the correct usage of PPE for protection against electrical hazards.

Fall Protection and Elevated Work Safety:

- Fall Hazard Recognition: Training on identifying potential fall hazards associated with elevated work areas in machinery facilities.
- Proper Use of Fall Protection Equipment: Ensuring proficiency in the correct use and maintenance of fall protection devices.
- Emergency Rescue Procedures: Focusing on emergency response procedures in case of a fall incident during elevated work.







Hazardous Materials Handling and Chemical Safety:

- Chemical Hazard Awareness: Comprehensive training on recognizing and handling hazardous materials commonly used in machinery operations.
- Personal Protective Equipment for Chemical Handling: Ensuring employees are equipped with the right PPE when working with or near hazardous substances.
- Spill Response Protocols: Training on immediate response measures in case of chemical spills to minimize environmental impact and health risks.

Fire Safety and Emergency Evacuation Training:

- Fire Prevention Practices: Comprehensive instruction on fire prevention measures within machinery facilities.
- Proper Usage of Fire Extinguishers: Training on the correct selection and usage of fire extinguishers for different types of fires.
- Emergency Evacuation Procedures: Ensuring employees understand and practice efficient evacuation protocols during fire or other emergencies.

Noise and Vibration Hazard Management:

- Noise Exposure Awareness: Training on recognizing and managing the risks associated with prolonged exposure to high levels of noise.
- Vibration Hazard Recognition: Teaching employees to identify and address risks related to machinery-induced vibrations.
- Personal Protective Measures: Emphasizing the importance of wearing appropriate PPE, such as hearing protection, in noisy environments.



