

TRAINING ON BUILDING & CONSTRUCTION



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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 Building & construction. At Pertecnica, we are your partners in growth, fostering a culture of continuous learning and development. Join us on a transformative journey.



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INDUCTION TRAININGS

- Building & construction

Construction Safety and Regulations Induction:

- In-depth training on safety regulations and best practices in the construction industry.
- Identification and awareness of potential safety hazards on construction sites.
- Practical exercises and simulations to reinforce safe practices during various construction activities.

Building Materials and Techniques Overview:

- Comprehensive understanding of various building materials used in construction.
- Training on construction techniques, including framing, masonry, and concrete work.
- Hands-on sessions to familiarize employees with the proper use of construction materials.

Blueprint Reading and Interpretation:

- Training on reading and interpreting architectural and construction blueprints.
- Understanding symbols, dimensions, and specifications in construction drawings.
- Application of blueprint reading skills to comprehend project plans accurately.



Construction Project Management Basics:

- Introduction to project management principles in the context of construction projects.
- Training on project planning, scheduling, and resource management.
- Overview of project coordination and communication within construction teams.

Occupational Health and Safety in Construction Sites:

- Comprehensive training on occupational health and safety principles specific to construction sites.
- Identification of potential health hazards associated with construction work.
- Practical exercises and demonstrations of proper safety practices for construction workers.

Introduction to Green Building and Sustainable Construction:

- Awareness of green building principles and sustainable construction practices.
- Training on energy-efficient design, eco-friendly materials, and waste reduction.
- Application of sustainable construction practices for environmentally responsible building.

Construction Site Communication and Teamwork:

- Training on effective communication within construction teams and with stakeholders.
- Understanding roles and responsibilities to enhance teamwork on construction sites.
- Practical scenarios to promote efficient communication and collaboration among team members.



Quality Assurance and Control in Construction:

- **Training on quality assurance principles and standards in construction projects.**
- **Implementation of good construction practices to ensure the quality of structures.**
- **Application of quality control measures throughout various phases of construction projects.**

Construction Equipment and Machinery Operation

Induction:

- **Introduction to the safe operation of construction equipment and machinery.**
- **Identification of potential hazards associated with the use of construction machinery.**
- **Hands-on training and simulations to ensure safe and efficient equipment operation.**

Introduction to Building Codes and Regulations:

- **Training on local building codes, regulations, and compliance standards.**
- **Understanding legal obligations and responsibilities in construction projects.**
- **Application of building codes to ensure lawful and compliant construction practices.**



REFRESHER TRAININGS

- Building & construction

Advanced Construction Safety Refresher:

- Updates on the latest safety regulations and best practices in the construction industry.
- Revision of hazard identification and safety protocols specific to construction sites.
- Practical exercises and case studies highlighting recent safety challenges and solutions.

Innovations in Building Materials and Techniques:

- Updates on emerging building materials and construction techniques.
- Training on the latest advancements in sustainable and energy-efficient construction.
- Hands-on sessions to familiarize employees with innovative construction practices.

Blueprint Reading and Advanced Interpretation:

- Review and update on reading and interpreting complex construction blueprints.
- Advanced understanding of symbols, dimensions, and specifications in detailed drawings.
- Application of advanced blueprint reading skills to interpret intricate project plans.



Construction Project Management Mastery Refresher:

- Updates on project management principles with a focus on construction projects.
- Training on advanced project planning, scheduling, and resource optimization.
- Case studies on successful project management strategies in recent construction projects.

Occupational Health and Safety Update in Construction:

- Updates on occupational health and safety principles, regulations, and standards.
- Revision of potential health hazards associated with evolving construction practices.
- Practical exercises to reinforce and update safety practices for construction workers.

Green Building and Sustainable Construction Review:

- Review of green building principles and sustainable construction practices.
- Updates on the latest advancements in eco-friendly materials and technologies.
- Application of sustainable construction practices in response to evolving industry standards.

Construction Site Communication and Team Building Refresher:

- Refreshing communication skills within construction teams and with stakeholders.
- Updates on effective collaboration and teamwork strategies on construction sites.
- Practical scenarios to reinforce efficient communication and strengthen teamwork.



Quality Assurance and Control Review in Construction:

- Review of quality assurance principles and standards in construction projects.
- Updates on best practices for maintaining and enhancing construction quality.
- Application of quality control measures to ensure consistent project excellence.

Advanced Construction Equipment Operation Refresher:

- Updates on the safe and efficient operation of advanced construction equipment.
- Review of potential hazards and safety measures associated with specific machinery.
- Hands-on training and simulations to refresh skills in equipment operation.

Building Codes and Regulations Update:

- Updates on local building codes, regulations, and compliance standards.
- Review of recent changes in legal obligations and responsibilities in construction.
- Application of updated building codes to ensure adherence to the latest industry standards.



SKILL UPGRADATION PROGRAMME

- Building & construction

Advanced Construction Project Management:

- In-depth training on advanced project management techniques specific to construction projects.
- Practical application of project planning, scheduling, and risk management in complex construction scenarios.
- Case studies on successful project management strategies, emphasizing efficiency and quality.

Building Information Modeling (BIM) Mastery:

- Comprehensive training on BIM principles and their application in construction projects.
- Hands-on practice with advanced BIM software for collaborative project design and coordination.
- Application of BIM for improved visualization, clash detection, and project communication.

Lean Construction Practices and Optimization:

- Training on lean construction principles for minimizing waste and maximizing efficiency.
- Application of lean techniques to streamline construction processes and reduce costs.
- Hands-on exercises to implement lean construction practices in real-world projects.



Construction Estimating and Cost Control:

- In-depth training on accurate construction cost estimation and budgeting.
- Practical application of cost control measures to ensure project financial success.
- Advanced techniques for analyzing and managing project costs throughout the construction lifecycle.

Advanced Structural Engineering and Design:

- Mastery of advanced structural analysis techniques for complex building structures.
- Training on designing structures for optimal performance and safety.
- Application of advanced structural engineering software for precise design calculations.

Construction Technology Integration:

- Exploration of emerging technologies in construction, such as robotics and automation.
- Training on integrating technology for improved construction efficiency and accuracy.
- Hands-on experience with construction tech tools to enhance skills in real-world applications.

Construction Risk Management and Mitigation:

- Advanced training on risk assessment and mitigation strategies in construction projects.
- Application of advanced risk analysis tools to identify and manage potential project risks.
- Development of comprehensive risk mitigation plans for complex construction scenarios.



Leadership and Team Management in Construction:

- Training on effective leadership and team management principles in the construction industry.
- Strategies for motivating and leading construction teams to enhance productivity.
- Case studies and simulations on successful leadership in construction projects.

Sustainable Construction Practices Certification:

- In-depth training on sustainable construction principles and green building standards.
- Application of eco-friendly materials and practices to minimize environmental impact.
- Hands-on experience with sustainable construction techniques for enhanced energy efficiency.

Conflict Resolution and Communication Skills for Construction Professionals:

- Training on effective communication and conflict resolution strategies in construction.
- Practical scenarios to develop communication skills for diverse construction teams.
- Techniques for resolving conflicts and maintaining positive working relationships on construction sites.



MANDATORY TRAINING

- Building & construction

Construction Safety Certification:

- In-depth training on safety regulations and best practices specific to construction sites.
- Identification and awareness of potential safety hazards associated with construction work.
- Practical exercises and simulations to reinforce safe practices during various construction activities.

Building Codes and Regulations Compliance:

- Training on local building codes, regulations, and compliance standards.
- Understanding legal obligations and responsibilities in construction projects.
- Application of building codes to ensure lawful and compliant construction practices.

Occupational Health and Safety in Construction:

- Comprehensive training on occupational health and safety principles specific to construction sites.
- Identification of potential health hazards associated with construction work.
- Practical exercises and demonstrations of proper safety practices for construction workers.



Construction Project Documentation and Reporting

Standards:

- Training on documentation requirements and reporting standards for construction projects.
- Understanding the importance of accurate project documentation for compliance.
- Application of standardized reporting practices for effective project communication.

Environmental Impact Assessment in Construction:

- Awareness of environmental regulations and considerations in construction projects.
- Training on minimizing the environmental impact of construction activities.
- Application of sustainable practices for eco-friendly construction.

Quality Assurance and Control in Construction:

- Training on quality assurance principles and standards in construction projects.
- Implementation of good construction practices to ensure the quality of structures.
- Application of quality control measures throughout various phases of construction projects.

Construction Ethics and Professional Conduct:

- Understanding ethical considerations and professional conduct in the construction industry.
- Training on responsible and ethical decision-making in construction projects.
- Case studies on ethical challenges in construction projects and strategies for resolution.



Emergency Response and Crisis Management in Construction:

- **Advanced training on emergency response procedures for construction-related incidents.**
- **Simulation exercises for quick and effective responses to accidents or emergencies.**
- **Coordination with emergency services and effective communication during construction emergencies.**

Construction Equipment Operation Safety:

- **Introduction to the safe operation of construction equipment and machinery.**
- **Identification of potential hazards and safety measures associated with specific machinery.**
- **Hands-on training and simulations to ensure safe and efficient equipment operation.**

Fall Protection and Working at Heights Certification:

- **Comprehensive understanding of fall protection measures for workers at elevated locations.**
- **Training on the proper use of fall protection equipment, such as harnesses and lanyards.**
- **Practical scenarios to demonstrate effective fall prevention and rescue techniques.**



SAFETY TRAINING

- Building & construction

Construction Site Safety Certification:

- In-depth training on safety regulations and best practices specific to construction sites.
- Identification and awareness of potential safety hazards associated with various construction activities.
- Practical exercises and simulations to reinforce safe practices during construction projects.

Fall Protection and Working at Heights Training:

- Comprehensive understanding of fall protection measures for workers at elevated locations.
- Training on the proper use of fall protection equipment, such as harnesses and lanyards.
- Practical scenarios to demonstrate effective fall prevention and rescue techniques.

Construction Equipment Operation and Safety:

- Introduction to the safe operation of construction equipment and machinery.
- Identification of potential hazards and safety measures associated with specific machinery.
- Hands-on training and simulations to ensure safe and efficient equipment operation.



Electrical Safety in Construction:

- **Understanding electrical hazards and safety precautions on construction sites.**
- **Training on the proper use of electrical equipment and machinery.**
- **Application of lockout/tagout procedures and safety measures during electrical work.**

Hazardous Materials Handling in Construction:

- **In-depth training on the safe handling and disposal of hazardous materials in construction.**
- **Identification and awareness of potential hazards associated with hazardous substances.**
- **Practical exercises to demonstrate proper procedures for handling and storing hazardous materials.**

Confined Space Entry and Rescue Training:

- **Comprehensive training on the hazards of confined spaces in construction.**
- **Proper procedures for entry into confined spaces and effective rescue techniques.**
- **Simulation exercises to ensure proficiency in confined space safety measures.**

Traffic Control and Road Safety in Construction:

- **Training on traffic management and control measures during construction projects near roadways.**
- **Identification of potential hazards associated with construction activities near traffic.**
- **Practical scenarios to demonstrate effective traffic control and safety practices.**



Emergency Response and First Aid in Construction:

- **Advanced training on emergency response procedures for construction-related incidents.**
- **Practical exercises in first aid and immediate response to injuries or accidents.**
- **Coordination with emergency services and effective communication during construction emergencies.**

Personal Protective Equipment (PPE) Awareness and Proper Usage:

- **Training on the importance of PPE in preventing injuries and ensuring worker safety.**
- **Identification of appropriate PPE for different construction tasks.**
- **Practical demonstrations on the correct usage and maintenance of PPE.**

