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Certificate in Construction Quality Assurance

## Inspection and Testing Procedures

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Acceptance Criteria refer to the standards and requirements that must be met for a construction project to be considered complete and acceptable to the client. Related terms include Inspection and Testing Procedures, Quality Control, and Quality Assurance. Acceptance Criteria are typically outlined in the contract documents and may include factors such as performance, safety, and regulatory compliance.

Active Listening is a communication technique used to ensure that all parties involved in a construction project are understood and heard. Related terms include Communication Plan, Conflict Resolution, and Team Management. Active Listening involves paying attention to what is being said, asking questions to clarify understanding, and responding in a way that shows understanding and empathy.

As-Built Drawings refer to the final set of drawings that reflect the actual construction of a project. Related terms include Construction Documents, Record Drawings, and Quality Control. As-Built Drawings are used to document any changes or variations that occurred during construction and are typically used for operation and maintenance purposes.

Audit Trail refers to the record of all changes, modifications, and updates made to a construction project's documents and records. Related terms include Quality Control, Quality Assurance, and Inspection and Testing Procedures. An Audit Trail is used to track and verify the accuracy and completeness of project records and to identify any discrepancies or irregularities.

Batching refers to the process of grouping similar construction activities or tasks together to improve efficiency and productivity. Related terms include Scheduling, Resource Allocation, and Quality Control. Batching is used to optimize resource utilization, reduce waste, and improve overall project performance.

Building Information Modeling (BIM) refers to the use of digital models and software to design, construct, and manage construction projects. Related terms include Computer-Aided Design (CAD), Construction Management, and Quality Control. BIM is used to improve collaboration, reduce errors, and enhance project outcomes.

Certification refers to the process of verifying that a construction project or product meets certain standards or requirements. Related terms include Accreditation, Quality Control, and Quality Assurance. Certification is used to ensure that construction projects or products meet regulatory requirements and industry standards.

Civil Engineering refers to the discipline of engineering that deals with the design, construction, and management of infrastructure projects such as roads, bridges, and buildings. Related terms include Construction Management, Quality Control, and Quality Assurance. Civil Engineering involves the application of scientific and mathematical principles to solve real-world problems.

Code of Practice refers to a document that outlines the standards and guidelines for a particular industry or profession. Related terms include Quality Control, Quality Assurance, and Regulatory Compliance. A Code of

Practice is used to establish minimum requirements for construction projects and to ensure that projects are completed in a safe and sustainable manner.

Commissioning refers to the process of testing and verifying that a construction project's systems and equipment are functioning as intended. Related terms include Quality Control, Quality Assurance, and Inspection and Testing Procedures. Commissioning is used to ensure that construction projects are safe, efficient, and functional.

Computer-Aided Design (CAD) refers to the use of software to create and manipulate digital models of construction projects. Related terms include Building Information Modeling (BIM), Construction Management, and Quality Control. CAD is used to improve design accuracy, reduce errors, and enhance collaboration.

Concrete Testing refers to the process of evaluating the quality and strength of concrete used in construction projects. Related terms include Quality Control, Quality Assurance, and Inspection and Testing Procedures. Concrete Testing is used to ensure that concrete meets specifications and standards.

Construction Management refers to the process of planning, coordinating, and controlling construction projects. Related terms include Quality Control, Quality Assurance, and Project Management. Construction Management involves the application of project management principles to ensure that construction projects are completed on time, within budget, and to the required quality.

Continuous Improvement refers to the process of identifying and implementing changes to improve the quality and efficiency of construction projects. Related terms include Quality Control, Quality Assurance, and Total Quality Management. Continuous Improvement involves the use of data and feedback to identify areas for improvement and to implement changes.

Contract Administration refers to the process of managing and administering construction contracts. Related terms include Contract Law, Quality Control, and Quality Assurance. Contract Administration involves the interpretation and enforcement of contract terms and conditions.

Contract Law refers to the body of law that governs construction contracts. Related terms include Contract Administration, Quality Control, and Quality Assurance. Contract Law provides a framework for understanding the rights and obligations of parties involved in construction contracts.

Controlled Documents refer to the documents that are used to control and manage construction projects. Related terms include Quality Control, Quality Assurance, and Document Control. Controlled Documents include procedures, protocols, and records that are used to ensure that construction projects are completed in a safe and controlled manner.

Corrective Action refers to the process of identifying and correcting defects or nonconformities in construction projects. Related terms include Quality Control, Quality Assurance, and Continuous Improvement. Corrective Action involves the identification of root causes and the implementation of changes to prevent recurrence.

Defect refers to a fault or shortcoming in a construction project that does not meet specifications or standards. Related terms include Quality Control, Quality Assurance, and Corrective Action. Defects can be minor or major and can have a significant impact on the quality and safety of construction projects.

Design for Constructability refers to the process of designing construction projects with constructability in mind. Related terms include Quality Control, Quality Assurance, and Value Engineering. Design for Constructability involves the consideration of construction methods, materials, and equipment during the design phase.

Design Review refers to the process of evaluating and improving construction project designs. Related terms include Quality Control, Quality Assurance, and Value Engineering. Design Review involves the identification of errors or omissions and the implementation of changes to improve the design.

Document Control refers to the process of controlling and managing construction project documents. Related terms include Quality Control, Quality Assurance, and Controlled Documents. Document Control involves the creation, review, and approval of documents and the management of document revisions.

Due Diligence refers to the process of conducting a thorough investigation and evaluation of a construction project. Related terms include Quality Control, Quality Assurance, and Risk Management. Due Diligence involves the identification of risks and opportunities and the implementation of strategies to mitigate risks.

Earthworks refer to the process of excavating, filling, and grading land to prepare it for construction. Related terms include Quality Control, Quality Assurance, and Geotechnical Engineering. Earthworks involve the use of heavy equipment and machinery to move and shape earth materials.

Electronic Data Interchange (EDI) refers to the process of exchanging business documents electronically. Related terms include Quality Control, Quality Assurance, and Document Control. EDI involves the use of standardized formats and protocols to facilitate the electronic exchange of documents.

Environmental Impact Assessment (EIA) refers to the process of evaluating the potential environmental impacts of a construction project. Related terms include Quality Control, Quality Assurance, and Sustainability. EIA involves the identification of potential risks and impacts and the implementation of strategies to mitigate them.

Fault Tree Analysis (FTA) refers to the method of analyzing the potential causes of a failure or defect. Related terms include Quality Control, Quality Assurance, and Reliability Engineering. FTA involves the use of logical diagrams to identify and evaluate potential causes of failure.

Geotechnical Engineering refers to the discipline of engineering that deals with the behavior of earth materials. Related terms include Quality Control, Quality Assurance, and Earthworks. Geotechnical Engineering involves the application of scientific and mathematical principles to understand and predict the behavior of earth materials.

Hazard Identification refers to the process of identifying potential hazards or risks associated with a construction project. Related terms include Quality Control, Quality Assurance, and Risk Management.

Hazard Identification involves the use of techniques such as hazard analysis and risk assessment to identify potential hazards.

Inspection and Testing Procedures refer to the process of evaluating the quality and conformance of construction projects. Related terms include Quality Control, Quality Assurance, and Certification. Inspection and Testing Procedures involve the use of standards and protocols to evaluate the quality and conformance of construction projects.

Integrated Project Delivery (IPD) refers to the approach of delivering construction projects through the use of integrated teams and processes. Related terms include Quality Control, Quality Assurance, and Collaborative Project Delivery. IPD involves the use of shared goals and objectives to improve collaboration and communication among project team members.

Interface Management refers to the process of managing and coordinating the interactions between different teams and stakeholders involved in a construction project. Related terms include Quality Control, Quality Assurance, and Communication Plan. Interface Management involves the use of protocols and procedures to manage and coordinate interfaces.

ISO 9001 refers to the international standard for quality management systems. Related terms include Quality Control, Quality Assurance, and Certification. ISO 9001 provides a framework for organizations to demonstrate their ability to provide products and services that meet customer and regulatory requirements.

Lean Construction refers to the approach of delivering construction projects through the use of lean principles and techniques. Related terms include Quality Control, Quality Assurance, and Continuous Improvement. Lean Construction involves the use of tools and techniques such as value stream mapping and waste reduction to improve efficiency and productivity.

Life Cycle Costing (LCC) refers to the process of evaluating the costs associated with a construction project over its entire life cycle. Related terms include Quality Control, Quality Assurance, and Whole Life Costing. LCC involves the use of techniques such as cost benefit analysis and life cycle assessment to evaluate the costs and benefits of different options and alternatives.

Maintainability refers to the ability of a construction project to be maintained and repaired over its life cycle. Related terms include Quality Control, Quality Assurance, and Reliability Engineering. Maintainability involves the use of design and construction techniques to improve the ease of maintenance and repair.

Material Control refers to the process of controlling and managing materials used in construction projects. Related terms include Quality Control, Quality Assurance, and Inventory Management. Material Control involves the use of techniques such as just in time delivery and vendor managed inventory to improve efficiency and reduce waste.

Method Statement refers to a document that outlines the procedures and protocols for completing a construction task or activity. Related terms include Quality Control, Quality Assurance, and Work Method Statement. Method Statement involves the use of step by step instructions to ensure that construction tasks are completed in a safe and controlled manner.

Nonconformity refers to a failure to meet a requirement or standard in a construction project. Related terms include Quality Control, Quality Assurance, and Corrective Action. Nonconformity can be minor or major and can have a significant impact on the quality and safety of construction projects.

Operational Readiness refers to the state of being prepared and ready for operation and maintenance. Related terms include Quality Control, Quality Assurance, and Commissioning. Operational Readiness involves the use of checks and tests to verify that systems and equipment are functioning as intended.

Performance Indicator refers to a metric or measure used to evaluate the performance of a construction project. Related terms include Quality Control, Quality Assurance, and Key Performance Indicator. Performance Indicator involves the use of data and information to evaluate the performance of construction projects and to identify areas for improvement.

Pre-Qualification refers to the process of evaluating the qualifications and capabilities of contractors and suppliers. Related terms include Quality Control, Quality Assurance, and Tendering. Pre-Qualification involves the use of criteria and standards to evaluate the qualifications and capabilities of contractors and suppliers.

Probability and Impact Matrix (PIM) refers to a tool used to evaluate and prioritize risks in construction projects. Related terms include Quality Control, Quality Assurance, and Risk Management. PIM involves the use of a matrix to evaluate the probability and impact of risks and to identify and prioritize risks for mitigation.

Procurement refers to the process of acquiring goods, services, and works for construction projects. Related terms include Quality Control, Quality Assurance, and Contract Administration. Procurement involves the use of techniques such as tendering and negotiation to acquire goods, services, and works.

Project Management refers to the process of planning, organizing, and controlling construction projects. Related terms include Quality Control, Quality Assurance, and Construction Management. Project Management involves the use of tools and techniques such as project scheduling and budgeting to ensure that construction projects are completed on time, within budget, and to the required quality.

Quality Assurance (QA) refers to the process of ensuring that construction projects meet requirements and standards. Related terms include Quality Control, Inspection and Testing Procedures, and Certification. QA involves the use of procedures and protocols to ensure that construction projects are completed in a controlled and consistent manner.

Quality Control (QC) refers to the process of evaluating and controlling the quality of construction projects. Related terms include Quality Assurance, Inspection and Testing Procedures, and Certification. QC involves the use of standards and protocols to evaluate and control the quality of construction projects.

Quality Management System (QMS) refers to a system used to manage and control quality in construction projects. Related terms include Quality Control, Quality Assurance, and ISO 9001. QMS involves the use of procedures and protocols to ensure that construction projects meet requirements and standards.

Raw Materials refer to the materials used as inputs for construction projects. Related terms include Quality Control, Quality Assurance, and Material Control. Raw Materials can include aggregates, cement, and steel.

Record Drawing refers to a drawing that shows the as-built condition of a construction project. Related terms include Quality Control, Quality Assurance, and As-Built Drawings. Record Drawing is used to document any changes or variations that occurred during construction.

Registration refers to the process of registering a construction project or company with a regulatory body. Related terms include Quality Control, Quality Assurance, and Certification. Registration involves the use of forms and applications to register a construction project or company.

Regulatory Compliance refers to the process of ensuring that construction projects meet regulatory requirements. Related terms include Quality Control, Quality Assurance, and Code of Practice. Regulatory Compliance involves the use of standards and protocols to ensure that construction projects meet regulatory requirements.

Reliability Engineering refers to the discipline of engineering that deals with the reliability and maintainability of systems and equipment. Related terms include Quality Control, Quality Assurance, and Maintainability. Reliability Engineering involves the application of scientific and mathematical principles to predict and improve the reliability and maintainability of systems and equipment.

Request for Information (RFI) refers to a document used to request information or clarification on a construction project. Related terms include Quality Control, Quality Assurance, and Communication Plan. RFI involves the use of forms and templates to request information or clarification.

Request for Proposal (RFP) refers to a document used to request proposals from contractors and suppliers. Related terms include Quality Control, Quality Assurance, and Procurement. RFP involves the use of forms and templates to request proposals.

Risk Management refers to the process of identifying, assessing, and mitigating risks in construction projects. Related terms include Quality Control, Quality Assurance, and Probability and Impact Matrix. Risk Management involves the use of techniques such as risk assessment and mitigation to identify and manage risks.

Safety Management refers to the process of ensuring the safety of construction projects. Related terms include Quality Control, Quality Assurance, and Occupational Health and Safety. Safety Management involves the use of procedures and protocols to ensure that construction projects are completed in a safe manner.

Schedule of Rates refers to a document that outlines the rates and prices for construction work. Related terms include Quality Control, Quality Assurance, and Contract Administration. Schedule of Rates involves the use of forms and templates to outline the rates and prices for construction work.

Site Investigation refers to the process of investigating and evaluating the site conditions for a construction project. Related terms include Quality Control, Quality Assurance, and Geotechnical Engineering. Site

Investigation involves the use of techniques such as site surveys and geotechnical investigations to evaluate the site conditions.

Snag List refers to a document that outlines the defects or nonconformities in a construction project. Related terms include Quality Control, Quality Assurance, and Corrective Action. Snag List involves the use of forms and templates to outline the defects or nonconformities.

Specification refers to a document that outlines the requirements and standards for a construction project. Related terms include Quality Control, Quality Assurance, and Contract Administration. Specification involves the use of forms and templates to outline the requirements and standards.

Statutory Compliance refers to the process of ensuring that construction projects meet statutory requirements. Related terms include Quality Control, Quality Assurance, and Regulatory Compliance. Statutory Compliance involves the use of standards and protocols to ensure that construction projects meet statutory requirements.

Structural Integrity refers to the ability of a construction project to withstand loads and stresses over its life cycle. Related terms include Quality Control, Quality Assurance, and Geotechnical Engineering. Structural Integrity involves the use of design and construction techniques to ensure that construction projects can withstand loads and stresses.

Subcontract refers to a contract between a main contractor and a subcontractor for the completion of a construction project. Related terms include Quality Control, Quality Assurance, and Contract Administration. Subcontract involves the use of forms and templates to outline the terms and conditions of the subcontract.

Supply Chain Management refers to the process of managing and coordinating the supply chain for construction projects. Related terms include Quality Control, Quality Assurance, and Procurement. Supply Chain Management involves the use of techniques such as just in time delivery and vendor managed inventory to improve efficiency and reduce waste.

Sustainability refers to the ability of a construction project to meet the needs of the present without compromising the ability of future generations to meet their own needs. Related terms include Quality Control, Quality Assurance, and Environmental Impact Assessment. Sustainability involves the use of design and construction techniques to reduce the environmental impact of construction projects.

Technical Specification refers to a document that outlines the technical requirements and standards for a construction project. Related terms include Quality Control, Quality Assurance, and Contract Administration. Technical Specification involves the use of forms and templates to outline the technical requirements and standards.

Tender refers to a document used to offer to complete a construction project at a specified price. Related terms include Quality Control, Quality Assurance, and Procurement. Tender involves the use of forms and templates to outline the terms and conditions of the tender.

Testing and Commissioning refers to the process of testing and verifying that a construction project's

systems and equipment are functioning as intended. Related terms include Quality Control, Quality Assurance, and Inspection and Testing Procedures. Testing and Commissioning involves the use of standards and protocols to ensure that construction projects are safe, efficient, and functional.

Third-Party Inspection refers to the process of using an independent third party to inspect and verify the quality of a construction project. Related terms include Quality Control, Quality Assurance, and Certification. Third-Party Inspection involves the use of standards and protocols to ensure that construction projects meet requirements and standards.

Total Quality Management (TQM) refers to the approach of managing and controlling quality in construction projects. Related terms include Quality Control, Quality Assurance, and Continuous Improvement. TQM involves the use of procedures and protocols to ensure that construction projects meet requirements and standards.

Value Engineering refers to the process of evaluating and improving the value of a construction project. Related terms include Quality Control, Quality Assurance, and Cost Benefit Analysis. Value Engineering involves the use of techniques such as value analysis and functional analysis to identify and implement improvements.

Variation refers to a change or deviation from the original plans or specifications for a construction project. Related terms include Quality Control, Quality Assurance, and Contract Administration. Variation involves the use of forms and templates to document and manage changes.

Verification refers to the process of checking and validating that a construction project meets requirements and standards. Related terms include Quality Control, Quality Assurance, and Inspection and Testing Procedures. Verification involves the use of standards and protocols to ensure that construction projects meet requirements and standards.

Warranty refers to a guarantee or assurance that a construction project will meet requirements and standards. Related terms include Quality Control, Quality Assurance, and Contract Administration. Warranty involves the use of forms and templates to outline the terms and conditions of the warranty.

Work Breakdown Structure (WBS) refers to a hierarchical decomposition of a construction project into smaller tasks and activities. Related terms include Quality Control, Quality Assurance, and Project Management. WBS involves the use of charts and diagrams to organize and structure the work.

Work Method Statement refers to a document that outlines the procedures and protocols for completing a construction task or activity. Related terms include Quality Control, Quality Assurance, and Method Statement. Work Method Statement involves the use of step by step instructions to ensure that construction tasks are completed in a safe and controlled manner.

Work Package refers to a group of related tasks and activities in a construction project. Related terms include Quality Control, Quality Assurance, and Work Breakdown Structure. Work Package involves the use of forms and templates to outline the tasks and activities.