



International Certification in

Civil Construction Designing & Management

WHO WE ARE

IREZ Academy Pvt.Ltd is an organization that provides world class Training and Certification in different aspects of educational field such as Technical, Health sector & HSE. Irez offers unique opportunity to face challenges through enriched Learning, Academic Excellence, Professional Training and corporate exposure. We deliver courses and conduct examinations to all major industrial sectors such as Oil and Gas, Construction, Power and Automotive. In IREZ engineering wing world class trainers deliver unrivalled quality of training and assessment leading to internationally recognized qualifications indemand by worldwide industries. Nowadays industry needs qualified people worldwide in large scale and you can't find the right professional training institution which provides world-class training and proper accreditation. This is where we come up. We have the right networks to get a career started with our programs. So we explore to learn more about what our career programs are capable of offering to you and the requirements for each role.

Mission

Impart quality education to meet the needs of profession and society and achieve excellence in learning. Talented human resources are attracted, developed and provides an environment conducive to innovation creativity and team spirit. Our mission is to educate leader's enhanced intellectual growth and to enrich life. Our mission is also to enable our students into outstanding professionals with high ethical standards to face the challenges of the next millennium

Vision

IREZ academy aspires to be an academic leader recognized for innovation and quality in teaching and learning



CONSTRUCTION MANAGEMENT

MEP Engineer is a single-level professional classification responsible for planning and design in the areas of mechanical, electrical, and plumbing (MEP) systems including developing policies, standards, inspection procedures, and evaluation of various projects. The mechanical aspect focuses on heating, ventilation and cooling (HVAC) and the electrical aspect focuses on providing power to all outlets and appliances. The plumbing aspect focuses on the delivery of water and the draining of waste water.

CONSTRUCTION MANAGEMENT

- ✓ Management system
- ✓ Project stages
- ✓ Issues resulting from construction
- ✓ Project management
- ✓ Clearance procedure
- ✓ Project cycle
- ✓ Project management triangle
- ✓ WBS
- ✓ Mass haul diagrams
- ✓ CPM methods
- ✓ PERT methods

2D DRAFTING

- ✓ Manual Drawing
- ✓ Space theory
- ✓ Vastu concept
- ✓ Software introduction
- ✓ Sheet setting
- ✓ Cad drawing
- ✓ Submission drawings
- ✓ Plotting

3D MODELLING

- ✓ BIM Concepts
- ✓ Introduction to software
- ✓ Basic parameter
- ✓ Residential plan importing
- ✓ Modelling
- ✓ Exporting

STRUCTURAL DESIGN & ANALYSIS

- ✓ Design Analysis
- ✓ Mix ratio
- ✓ Cod - Based load prescription
- ✓ Analysis method
- ✓ Modelling tools
- ✓ Templates
- ✓ Exports results



QA/ QC

In every industry QA/QC have major role in Developing and determining all standards to perform inspection & tests on all procedures and oversee all testing methods and maintain high standards of quality for all processes. Review quality of all materials at site and ensure compliance to all project specifications and quality and collaborate with department for all material procurement and maintain quality of materials. supervise effective implementation of all test and inspection schedule and ensure adherence to all procedures and coordinate with various teams to perform quality audits on processes. Assist with employees to ensure knowledge of all quality standards and ensure compliance to all quality manual and procedures and collaborate with contractors and suppliers to maintain quality of all systems.

- ▶ Roles & Responsibilities of QA/QC Engineer
- ▶ Quality Management system (ISO 9001- 2015)
- ▶ Execution procedure to maintain quality in works
- ▶ Practical in civil engineering
- ▶ Introduction to IS codes/ BS codes
- ▶ Introduction to project management
- ▶ Quality test for materials
- ▶ Quality documentation & report preparation
- ▶ Analysis of earthquake resistant structure
- ▶ Prestressing of concrete
- ▶ Documentations & forms required for follow up activities in construction sites
- ▶ Industrial safety awareness
- ▶ Soft skill training



CIVIL QS

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QUANTITY TAKE OFF

- ✓ Types of estimates
- ✓ Calculation of lengths
- ✓ Area calculation
- ✓ Material calculation
- ✓ Taking of quantity from plans

BAR BENDING SCHEDULE

- ✓ Types of estimates
- ✓ Calculation of lengths
- ✓ Area calculation
- ✓ Material calculation
- ✓ Taking of quantity from plans

RATE ANALYSIS

- ✓ DAR, DSR explaining
- ✓ Various codes of CPWD
- ✓ Analysing Rates
- ✓ Preparing Estimates
- ✓ BOQ Preparation

VALUATION

- ✓ Objects valuation
- ✓ Purpose of valuation
- ✓ Valuation of buildings
- ✓ Value, cost, price
- ✓ Development method
- ✓ Depreciation

NDT

- ✓ Rebound Hammer
- ✓ Penetration resistance
- ✓ Performer
- ✓ Ultrasonic Pulse Velocity
- ✓ Half-cell electrical potential method
- ✓ Visual Inspection



IREZ[®] ACADEMY

knowledge for success



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