



PROSPECTUS



**CENTER FOR HOUSING PLANNING AND BUILDING (CHPB)
CONSTRUCTION INDUSTRY DEVELOPMENT AUTHORITY (CIDA)
MINISTRY OF HOUSING, CONSTRUCTION AND CULTURAL AFFAIRS**



INTRODUCTION

Centre for Housing Planning and Building (CHPB) is a multi-disciplinary institute coming under managerial jurisdiction of Construction Industry Development authority (CIDA), under the Ministry of housing and construction. CHPB is emphatic in conduction courses aimed to career development of professionals.

VISION

Provide Training Services to develop competent Human Resources to suite Global Construction Industry.

MISSION

To provide internationally recognized qualification standards Maximizing Island Wide participation of Newcomers and Practitioners of construction industry.

Long Term Courses

Level of the Course	Construction Technology	Quantity Surveying	Interior Design	Landscape	Building Services Engineering	Construction Site Supervisor	Building Services Technician	Quantity Surveying Assistant	Interior Decorator	Landscape Development Assistant
National Diploma NVQ 5	✓	✓	✓	✓	✓					
National Certificate NVQ 4						✓		✓	✓	✓
CHPB Certificate		✓								

CHPB presently conducts wide range of courses covering the following subjects and fields.

QUANTITY SURVEYING COURSES

- National Diploma in Quantity Surveying – NVQ Level V
- Diploma Course in Quantity Surveying (Part Time)
- Certificate Course in Quantity Surveying – NVQ Level IV

INTERIOR DESIGN COURSES

- National Diploma in Interior Design – NVQ Level V
- National Certificate in Interior Decorator – NVQ Level IV

LANDSCAPE COURSES

- National Diploma in Landscape Architecture – NVQ Level V
- National Certificate in Landscape Development Assistant – NVQ Level IV

BUILDING SERVICES ENGINEERING COURSES

- National Diploma in Building Services Engineering – NVQ Level V

COMPUTER COURSES RELATED TO CONSTRUCTION FIELD

- MS Project - (08 days)
- Auto Cad - (10 days)
- Intensive Course on Primavera - (04 days)

SHORT TERM COURSES

- Short Course on Construction Contract Administration - (05 days)
- Short Course on Pricing of BOQ & Rate Analysis - (05 days)
- Short Course on Use of Standard Method of Measurements (SLS 573) - (06 days)
- Work Shop on FIDIC / SBD 2 Contracts - (02 days)
- Short Course on MEP Quantity Surveying - (05 days)
- Short Course on Use of Level Instruments - (04 days)
- Training Programme on use of EDM (Total Station) - (03 days)
- Training programme on Plumbing Technology - (05 days)
- Short Course on Landscape Gardening - (05 days)
- Short Course on Construction Law - (05 days)
- Short Course on Waste water collection, treatment, disposal & reuse. - (04 days)
- Two day short course on Data Centre Designing - (02 days)
- Two day training Workshop on Industrial Pollution Control and Occupation - (02 days)

SEMINARS & WORK SHOPS

- Seminar on Interim Valuation & Final Accounts
- Seminar on Insurance for Construction
- Seminar on Foundation Engineering
- Seminar on practical use of ICTAD /FIDIC Contracts, procurement guide lines etc
- Seminar on Payment Procedures in Construction Contracts
- Seminar on Fundamentals of Building Construction Technology
- Seminar on Maintenance of Building AC Systems
- Seminar on Contract Law
- Seminar on Pricing Variations in Construction Contracts
- Seminar on Concrete Technology (General)
- Seminar on Tender Preparation for small & Medium scale Contracts
- Seminar on Essentials for Effective Construction Contract Administration
- Seminar on Post Contract Administration
- Seminar on Subcontracting & Clams in Construction Contracts
- Seminar on Energy Conservation in Commercial Buildings
- Seminar on Foundation Engineering
- Seminar on ICTAD price fluctuation formula
- Seminar on Environmental Management for Construction Industry
- Workshop on Water Proofing Technology
- Workshop on Interior Design
- Workshop on Electrical Technology (Industrial)
- Workshop on Electrical Technology (Residential)
- Workshop on Aluminum & Glazing Work
- Workshop on Usage of Timber for Construction Industry

- Workshop on Construction of Cost Effective Houses
- Workshop on Lightening Protection
- Workshop on Aluminum Fabrication
- Workshop on Plumbing Technology
- Workshop on Introduction to Building Foundations and Concrete Technology
- Workshop on Basis of Scientific Building Painting Technology
- Workshop on Environmental Friendly Housing Technology
- Workshop on Tilling and Floor Finishing Techniques
- Workshop on Lightening Protection
- Workshop on Landscaping
- Workshop on Good Engineering Practice on Air Conditioning Installation and Maintenance
- Workshop on Building Internal And External Voice And Data Communication Cabling

Note : Dates, topics & fee of above seminars & workshops may be varied

In addition to that we will conduct courses / training programmes related to the customer requirements related construction field.

QUANTITY SURVEYING DIPLOMA COURSE

NATIONAL DIPLOMA IN QUANTITY SURVEYING – NVQ Level V

A quantity surveyor is a construction industry professional with expert knowledge on construction costs & contracts. Take the first step to career as a quantity surveyor. To assist you in gaining the key skills of a quantity surveyor modules are carefully structured on the underpinning principles of this profession.

Course Contents

- ↻ Mathematical concepts in Quantity Surveying
- ↻ Measurement
- ↻ Construction Technology
- ↻ Quantity Surveying Practice I , II
- ↻ Drawing practice for Quantity Surveying
- ↻ Financial Accounting
- ↻ General Economics
- ↻ Manage work place Information
- ↻ Manage work place Communication
- ↻ Plan work to be performed at workplace
- ↻ Contract Law
- ↻ Contract Administration
- ↻ Material Technology
- ↻ Estimating & Tendering
- ↻ Viva
- ↻ Project & Presentation
- ↻ Introduction to Project Management Practices
 - Occupational Health & Safety Procedures
 - National Procurement Guidelines
 - Introduction Building Services
 - Green Building Guidelines
 - Construction Equipment Management

Qualification

Passed G.C.E. Advance Level or NVQ Level 4 in similar field or equivalent qualification

Duration

Full Time : One Year (4 weekdays per week)
6 months in plant training
Part Time : Two Years (2 days per weekends)
6 months in plant training

Medium

English (with Sinhala interpretation)

Methodology

Chartered Engineers ,Chartered Quantity Surveyors, University Lectures,& Qualified Practitioners in the industry

All modules of TVEC competency base training curriculum related to Quantity Surveying NVQ Level 5 are included

DIPLOMA COURSE IN QUANTITY SURVEYING (PART TIME)

The courses are designed for the benefit of Quantity Surveyors, Technical Officers, Draughtsman, Supervisors, Middle & lower level personnel and others engaged in the construction industry. To upgrade their competency and potential through this internationally recognized certification.

Course Contents

- Preparation of BOQ for major construction works (SLS 573) and Civil work (CESMM4)
- General Economics
- Financial Accounts
- Manage work place information & communication
- Contract Law
- Plan work to be performed in the work place
- Contract Administration
- QS Practice I & II
- Viva
- Presentation
- Project

Qualification

- CHPD or CHPB (QS) certificate
- NCT QS
- NCIT
- City & Guilds Diploma (QS)
- Quantity Surveying (NVQ level 4) equivalent qualifications.

Duration

One year

Medium

English (with Sinhala interpretation)

Methodology

Lectures, Discussion, Assignments, Viva, Presentation & Project

NATIONAL CERTIFICATE FOR QUANTITY SURVEYING ASSISTANT – NVQ Level IV

A quantity surveyor is a construction industry professional with expert knowledge on construction costs & contracts. Take the first step to career as a quantity surveyor . To assist you in gaining the key skills of a quantity surveyor modules are carefully structured on the underpinning principles of this profession.

Course contents

- ↪ Prepare Bill of Quantities (BOQ)
- ↪ Estimating and Tendering / Bidding Process
- ↪ Post Contract Quantity Surveying activities
- ↪ Career Skill 2

All modules of TVEC competency base training curriculum related to Assistant Quantity Surveying NVQ Level 4 are included

Qualification

Passed G.C.E Ordinary Level 6 subjects including English with Credits pass in Mathematics or Accounting

Duration

Full Time : 6 Month (5 days per week) +
6 months in plant training

Part Time : 12 Month (2 days per week)
6 months in-plant training

Medium

English (with Sinhala interpretation)

Methodology

Chartered Engineers,Chartered Quantity Surveyors,
University Lectures,& Qualified Practitioners in the industry

CONSTRUCTION MANAGEMENT COURSES

DIPLOMA IN ADVANCED CONSTRUCTION MANAGEMENT

The Course is designed for the benefit of Executive officers, Project Managers, Engineers, Architects, Quantity Surveyors and Other professionals engaged on high caliber construction activities. To upgrade their knowledge and earning potentials from professionally standard certification.

Course Contents

- Occupational Safety
- Health & Accident Prevention @ work site
- Value Engineering & Construction Economics
- Insurance for Construction Industry
- Industrial Disputes & Arbitration
- Team Building & Leadership Development
- Training & Development of Subordinates
- Mgt. of Construction Equipment
- Environmental and Risk Management
- Management Concept & Function
- Labor Management & Productivity Improvement
- Stores Management
- Contract Management (Pre & Post)
- Tender Procedures
- Management of Sub Contract
- Condition of Contract & Contract Administration

Course Contents

- Contract Law
- Construction Planning
- Network Analysis
- Resources Planning
- Financial Planning
- Computer Application in Construction Planning
- Progress & Quality Control
- Nano Technology & Construction Industry Application

Duration

One year (every Friday 9.00 am to 4.00 pm)

Medium

English (with Sinhala interpretation)

Methodology

Lectures, Assignment, Case study, Viva, Presentation & Project

CERTIFICATE COURSE IN CONSTRUCTION WORKS MANAGEMENT (FULL TIME) - NVQ Level IV

The Course is designed for the benefit of school leavers those who are interested to enter the construction industry and Middle and lower level personnel or others engaged in construction. To upgrade their competency and earning a valuable certificate.

Course Contents

- Construction Technology
- Construction Drawing
- Engineering Materials
- Construction Management
- BOQ - Measurements & Pricing
- Construction Mathematics
- English for Construction
- Planning Works & Resources
- Construction Equipment Management
- Road Construction & Maintenance
- Water Supply & Sewage Disposal
- Surveying & Leveling
- Industrial Safety Health & Environment
- Quality Control
- Cost Management
- Practical based training will be provided during the Institutional training period

Course Benefit

- Entrepreneurship through CIDA Registration
- Entry Qualification for the Diploma in QS
- Opportunities for Local & Foreign Jobs
- Be a Competent employee in the field of construction

Qualification

Credit passes for Mathematics & Science, Ordinary passes for English & other 06 subjects in the G.C.E (O/L)

Duration

One year (05 months -Institutional & 07 months - In plant Training)

Medium

English (With Sinhala interpretation)

Methodology

Lecturers, Assignment, Practical's, Site visits, Viva, Project

CERTIFICATE COURSE IN CONSTRUCTION WORKS MANAGEMENT – PART TIME

The Course is designed for the benefit of school leavers those who are interested to enter the construction industry and Middle and lower level personnel or others engaged in construction. To upgrade their competency and earning a valuable certificate.

Course Contents

- Construction Technology
- Construction Drawing
- Engineering Materials
- Construction Management
- BOQ - Measurements & Pricing
- Construction Mathematics
- English for Construction
- Planning Works & Resources
- Construction Equipment Management
- Road Construction & Maintenance
- Water Supply & Sewage Disposal
- Surveying & Leveling
- Industrial Safety Health & Environment
- Quality Control
- Cost Management
- Practical based training will be provided during the Institutional training period

Course Benefit

- Entrepreneurship through CIDA Registration
- Entry Qualification for the Diploma in QS
- Opportunities for Local & Foreign Jobs
- Be a Competent employee in the field of construction

Qualification

3 years relevant working experience and studied up to G.C.E (O/L).

Duration

One year (weekend) – Methodology Institutional Training with practical exposure. (Special installment method for payments)

Medium

English (With Sinhala interpretation)

Methodology

Lecturers, Assignment, Practical's, Site visits, Viva, Project

INTERIOR DESIGN COURSES

NATIONAL DIPLOMA IN INTERIOR DESIGN TECHNOLOGY - NVQ Level V

The course emphasizes the balance between creativity and practicality. A strong theoretical base is encouraged for creative concepts, while technology is applied in solving design problems. Modules are carefully structured to integrate ergonomic and spatial qualities of design, within the context of historical background and contemporary practice.

Course Contents

- ↪ History of Architecture & Design
- ↪ Theory and Practice of Design
- ↪ Space Planning and Human Dimensions
- ↪ Materials and Elements of Interior Design
- ↪ Design Communication –Drawings and Rendering
- ↪ Design samples and final product design
- ↪ Interior Landscaping
- ↪ Furniture Design concepts
- ↪ Introduction to Building Services
- ↪ Introduction to Project Management Practices
 - Occupational Health & Safety Procedures
 - Planning & Scheduling of Work
 - Preparation of BOQ & Estimation
 - Contract Law & Contract Management
 - National Procurement Guidelines
 - Introduction Building Services
 - Green Building Guidelines
 - Building Regulations & Quality Controlling
 - ICT & Personal Grooming

Qualification

Passed G.C.E. Advance Level or NVQ Level 4 in similar field or equivalent qualification

Duration

Full Time : One Year (4 weekdays per week) +
6 months in plant training
Par Time : Two Years (2 days per weekends)
6 months in plant training

Medium

English (with sinhala interpretation)

Methodology

Chartered Architects & Engineers, Interior Designers,
University Lectures & Qualified Practitioners in the
industry

All modules of TVEC competency base training curriculum related to Interior Design Technology NVQ Level 5 are included

NATIONAL CERTIFICATE FOR INTERIOR DECORATOR - NVQ Level IV

The course emphasizes the balance between creativity and practicality. A strong theoretical base is encouraged for creative concepts, while technology is applied in solving design problems. Modules are carefully structured to integrate ergonomic and spatial qualities of design, within the context of historical background and contemporary practice,

Course Contents

- ↪ Follow Design Instructions
- ↪ Ensure specified material and Accessories
- ↪ Implements relevant jobs with the assistance of sub parties
- ↪ Arrange design samples of final product
- ↪ Ensure fabrication of partitions and dressing of wall, Floor and ceilings
- ↪ Ensure placement of fittings and items
- ↪ perform activities related to site management
- ↪ Demonstrate the knowledge of architectural and engineering services

All modules of TVEC competency base training curriculum related to Interior Decorator NVQ Level 4 are included

Qualification

Passed G.C.E Ordinary Level 6 subjects including Credits pass in Arts or Aesthetic subject

Duration

Full Time : 6 Month (5 days per week) +
9 months in plant training

Part Time : 12 Month (2 days per week)
9 months in-plant training

Medium

English (with sinhala interpretation)

Methodology

Chartered Architects & Engineers, Interior Designers, University Lectures & Qualified Practitioners in the industry

LANDSCAPE COURSES

NATIONAL DIPLOMA IN FLORICULTURE & LANDSCAPE GARDENING TECHNOLOGY – NVQ Level V

Landscape architecture is the design of outdoor areas, landmarks and structures to achieve environmental, Social-behavioral or aesthete outcomes. The course aims to fulfill the present day requirement of better landscape garden practitioners to be entrusted with the task of design, implementing & maintaining landscape gardening projects in the field.

Course Contents

- ↻ Develop small / medium landscape design
- ↻ Landscape construction & Maintenance
 - Introduction to Horticulture machinery & equipment
 - Land preparation, water treatments & irrigation
 - Hard landscape materials
- ↻ Nursery management & maintenance
- ↻ Perform arboriculture practices
- ↻ Prepare a plant production programme
- ↻ Landscape specification, BOQ & Estimating
- ↻ Introduction to Project Management Practices
 - Occupational Health & Safety Procedures
 - Planning & Scheduling of Work
 - Preparation of BOQ & Estimation
 - Contract Law & Contract Management
 - National Procurement Guidelines
 - Introduction Building Services
 - Green Building Guidelines
 - Construction Equipment Management
 - Building Regulations & Quality Controlling
 - ICT & Personal Grooming

Qualification

Passed G.C.E. Advance Level or NVQ Level 4 in similar field or equivalent qualification

Duration

Full Time : One Year (4 weekdays per week) +
6 months in plant training
Part Time : Two Years (2 days per weekends)
6 months in plant training

Medium

English (with sinhala interpretation)

Methodology

Qualified Landscape Designers, Architects ,
University Lectures & Qualified Practitioners in the
industry

All modules of TVEC competency base training curriculum related to Floriculture & Landscape Gardening Technology NVQ Level 5 are included

NATIONAL CERTIFICATE FOR LANDSCAPE DEVELOPMENT ASSISTANT – NVQ Level IV

Landscape architecture is the design of outdoor areas, landmarks and structures to achieve environmental, Social-behavioral or aesthete outcomes. The course aims to fulfill the present day requirement of better landscape garden practitioners to be entrusted with the task of design, implementing & maintaining landscape gardening projects in the field.

Course Contents

- ↻ Interpret / understanding of drawing
- ↻ Prepare land / earth
- ↻ Utilize irrigation and drainage systems
- ↻ Manage plant nurseries
- ↻ Maintain re - cycling activities
- ↻ Control plant diseases and pests
- ↻ Maintain tools and equipment
- ↻ Perform and maintain hard landscaping
- ↻ Perform and maintain soft landscaping
- ↻ Assist in administrative and management activities

All modules of TVEC competency base training curriculum related to Landscape Development Assistant NVQ Level 4 are included

Qualification

Passed G.C.E. Advance Level or NVQ Level 4 in similar field or equivalent qualification

Duration

Full Time : 6 Month (5 days per week) +
6 months in plant training

Part Time : 12 Month (2 days per week)
6 months in-plant training

Medium

English (with sinhala interpretation)

Methodology

Qualified Landscape Designers, Architects,
University Lectures & Qualified Practitioners in the
industry

BUILDING SERVICES TECHNOLOGY

NATIONAL DIPLOMA IN BUILDING SERVICES TECHNOLOGY – NVQ Level V

The Course is designed for the benefit of school leavers those who are interested to enter the construction/ building services industry and middle & lower level personnel or others engaged in construction & building operations. If you are interested to upgrade your competency and earning a valuable National Diploma Level

Course Contents

- ↻ Basic Electrical Technology & Lighting
- ↻ Basic Electronics
- ↻ Plumbing Systems
- ↻ Heating Ventilation and Air Conditioning Services
- ↻ Extra Low Voltage (ELV) Systems
- ↻ Physics and Mathematics
- ↻ Technical Drawings
- ↻ Introduction to Fire Detection and Suppression Systems
- ↻ Waste water treatment & Storm water drainage
- ↻ Introduction to Building Automation Systems
- ↻ Introduction to Escalators & lifts
- ↻ Introduction to Energy Supply & Management
- ↻ Introduction to Project Management Practices
 - Occupational Health & Safety Procedures
 - Planning & Scheduling of Work
 - Preparation of BOQ & Estimation
 - Contract Law & Contract Management
 - National Procurement Guidelines
 - Green Building Guidelines
 - Construction Equipment Management
 - Building Regulations & Quality Controlling
 - ICT & Personal Grooming

Qualification

Passed G.C.E. Advance Level or NVQ Level 4 in similar field or equivalent qualification

Duration

Full Time : One Year (4 weekdays per week) +
6 months in plant training

Part Time : Two Years (2 days per weekends)
6 months in plant training

Medium

English (with sinhala interpretation)

Methodology

Chartered Mechanical & Building Services Engineers ,
University Lectures, & Qualified Practitioners in the industry

All modules of TVEC competency base training curriculum related to Building Services Technology NVQ Level 5 are included

CONSTRUCTION TECHNOLOGY

NATIONAL DIPLOMA IN CONSTRUCTION TECHNOLOGY - NVQ Level V

The Course is designed for the benefit of school leavers those who are interested to enter the construction industry and middle and lower level personnel or others engaged in construction. If you are interested to upgrade your competency and earning a valuable National Diploma Level.

Course Contents

- ↔ Mathematics for Construction Technology
- ↔ Surveying & Leveling
- ↔ Technical Drawings
- ↔ Construction Material
- ↔ Basics of Construction Technology
 - Foundations
 - Building Technology
 - Structural Mechanics
 - Hydraulics
 - Soil Mechanics
 - Road / Highway Technology
 - Culverts and Bridges
 - Irrigation Technology
- ↔ Waste water treatment & Storm water drainage
- ↔ Introduction to Project Management Practices
 - Occupational Health & Safety Procedures
 - Planning & Scheduling of Work
 - Preparation of BOQ & Estimation
 - Contract Law & Contract Management
 - National Procurement Guidelines
 - Introduction Building Services
 - Green Building Guidelines
 - Construction Equipment Management
 - Building Regulations & Quality Controlling
 - ICT & Personal Grooming

Qualification

Passed G.C.E. Advance Level or NVQ Level 4 in similar field or equivalent qualification

Duration

Full Time : One Year (4 weekdays per week) +
6 months in plant training
Part Time : Two Years (2 days per weekends)
6 months in plant training

Medium

English (with sinhala interpretation)

Methodology

Chartered Engineers, Architects, Chartered Quantity Surveyors, University Lecturers, & Qualified Practitioners in the industry

All modules of TVEC competency base training curriculum related to Construction Technology NVQ Level 5 are included

NATIONAL CERTIFICATE FOR CONSTRUCTION SITE SUPERVISOR - NVQ Level IV

The Course is designed for the benefit of school leavers those who are interested to enter the construction industry and middle and lower level personnel or others engaged in construction. If you are interested to upgrade your competency and earning a valuable National Vocational Qualification

Course Contents

- ↪ Handle resources in the construction site
- ↪ Carryout construction site works
- ↪ Communicate with subordinates / superiors
- ↪ Control the quality of construction work
- ↪ Provide welfare of employees
- ↪ Maintenance health & Safety at site
- ↪ Career skills 2

All modules of TVEC competency base training curriculum related to Construction Site Supervisor NVQ Level 4 are included

Qualification

Passed G.C.E Ordinary Level 6 subjects including English with Credits pass in Mathematics

Duration

Full Time : 6 Month (5 days per week) +
6 months in plant training

Part Time : 12 Month (2 days per week)
6 months in-plant training

Medium

English (with sinhala interpretation)

Methodology

Chartered Mechanical & Building Services Engineers ,
University Lectures, & Qualified Practitioners in the industry

COMPUTER COURSES RELATED TO CONSTRUCTION FIELD

MS PROJECT

The Course is designed to cater for personnel involve or to be expected to join in project activities and other enthusiasts.

Course Contents

Introduction

- Project Mgt, Project Priorities, WBS
- Organizing project data, Adjusting software option, Preparation of project calendar, Task calendar, Resource calendar

Planning Stage of Project

- Project Information, Task list & task information
- Task deadlines & constraints, Project miles stones
- Assigning task calendar, Resource sheet, unit prices
- Price changers
- Assigning resources for task, Resource leveling
- Preparation priced BOQ, cash flow forecast
- Resource graph, Schedule formatting
- Programme printing

Implementation stage of Project

- Organizing work performance data
- Periodically update tasks
- Earn value management
- Cost variance
- Estimate at completion
- Cost Variance

Course Contents

Special Application

- Revised programme
- Extension of time
- MS Excell& Preparing MS Project
- Report generating - cost reports, Progress, Resource, Earn value management

Course Benefits

- Enhance Competency
- Short Duration
- Limited Group & Individual Attention
- Opportunity to Gain Expertise Knowledge
- Disputes & Arbitration
- A valuable certificate will be awarded

Qualification

Degree, Diploma or Certificate course in Engineering/ Quantity Surveying

Duration

30 hrs. (Saturday)

Medium

English (with Sinhala interpretation)

Methodology

Lectures with hands on training, in class assignment

AUTO CAD

The Course is designed to enhance the practical knowledge on how to use computer aided design techniques for drafting purposes

Course Contents

- Introduction to AutoCAD
- User Coordinate System
- Basic & Drawing Commands
- Selection Methods
- Modify Commands
- Layers, Text, Line Types Controlling
- Hatching, Blocks, Tables & Attributes
- Dimensioning Styles
- Model space, Paper space, & Layouts
- Editing & Advance Display Commands
- 3D-Interface
- Thickness and elevation
- 3D objects & Editing
- Visualizing Your model & 3D orbit
 - ❖ Covering to Architectural, Surveying, Plumbing & Electrical Drawings

Course Benefits

- Enhance Competency
- Short Duration
- Limited Group & Individual Attention
- Opportunity to Gain Expertise Knowledge
- Disputes & Arbitration
- A Valuable certificate will be awarded

Qualification

Degree, Diploma or Certificate course in Engineering (Civil, Mechanical, Electrical)/Quantity Surveying/ Draughtpersons

Duration

80 hrs.(Saturday)

Medium

English (with Sinhala interpretation)

Methodology

Lectures, with hands on training, In class Assignments& Exam

INTENSIVE COURSE ON PRIMAVERA

The Course is designed to Engineers, Managers, Quantity Surveyors and those who interest in the field of Project Management.

Course Contents:

- Developing Project by using WBS (Work Break Down Structure)
- Developing Project by using Activity Code (Phase, Department, Responsibilities and Division etc)
- Construct the Project Calendar and Resource Calendar
- (Assign Holidays, Vacation Period and No Labour and Material with their unit Price and Maximum Unit/ Time)
- Define Role for Resources
- Define Project Gantt chart with Various types of Bars
- Define and maintenance of Project Base Line
- Define Header and Footer
- Analysis of Total budget cost, Labour Cost, Non - Labour Cost and Material Cost
- Define and assign different project Layout
- Define and assign of Primary and secondary Constraints and Secondary Constraints and analysis of the Project behavior
- Analysis of the Time Extension due to suspending and Resuming work of an activity
- Defining and assigning of various type of Filters
- Project scheduling and compare
 - The schedule progress with achieved progress
 - Target project completion date with forecasted
- Project completion date
 - Earned value with planned value
 - Delay activities
- Resources Leveling
- Analysis of Cumulative total cost curve (S-Curve)

Qualification

Degree, Diploma or Certificate course in Engineering/ Quantity Surveying

Duration

4 days (weekday/Saturday/Sunday)

Medium

English (with Sinhala interpretation)

Methodology

Lectures with hands on training, in class assignment

SHORT TERM COURSES

CONSTRUCTION CONTRACT ADMINISTRATION

To Whom

Engineers, Project Managers, Architects, Quantity Surveyors, Contractors, Senior Supervisors, Technical Officers & Technical Staff of stakeholders

Course Contents

- Formation of construction contract. (offer, acceptance, consideration capacity, intention)
- Obligation, Rights, Liabilities
- Terminology of contract
- Contents of contract/Key Elements
- Drafting contract agreement
- Award of contract/Breach of contract
- System of administrate the contract
- Study plan the contract administration activities
- Monitoring and Controlling
- Time of completion
- Guidelines for code of ethics
- Common contract forms
- Conditions of contract clauses with SBD/01
- Contract collateral warranties and third parity notices

Duration

5 days

Medium

English (with sinhala interpretation)

Methodology

Lecturers, Assignment

USE OF LEVEL INSTRUMENTS

To Whom

Engineers, Quantity Surveyors, Technical Officers and other engaged in Road & Building Construction activities

Course Contents

- Introduction to Leveling instruments, Terms & Temporary adjustment of level
- Level books, Reduction of levels using collimation methods
- Level taken of cross section, Longitudinal & Volume of earth works
- Plotting of cross & logical longitudinal and calculation
- Practical's of above activities

Duration

4 days

Medium

English (with sinhala interpretation)

Methodology

Lecturers, Practical's

TRAINING PROGRAMME ON PLUMBING TECHNOLOGY

To Whom

Those involved in landscape project as technicians, gardeners, garden helpers in the field

Course Contents

- Introduction of plumbing.
- Water sources.
- Introduction of pipes & fittings.
- Preparation of cutting list.
- Application methods of different valves & taps.
- Planning of pipe systems
- Fixing and installation of domestic water tanks, applying modern techniques and applicable remedies for related problems.
- Fundamental fixing methods of domestic sanitary ware using new technology (Wash basins, Shower, Sink, Commode etc.)
- Construction fixing and installation of sewer tanks.

Duration

5 days

Medium

English (with sinhala interpretation)

Methodology

Lecturers, Practical's

PRICING OF BOQ & RATE ANALYSIS

To Whom

Engineers, Quantity Surveyors, Technical Officers Other professionals engaged in billing & pricing process

Course Contents

- Bonds & Guarantees, General Bill/ Preliminary Bill
- Rate analysis for BOQ items including concreting , form work, Reinforcement, Earth work, Finished, Plant & Equipment etc
- Pricing of BOQ

Duration

5 days

Medium

English (with sinhala interpretation)

Methodology

Lecturers, Assignment

TRAINING PROGRAMME ON USE OF EDM (TOTAL STATION)

To Whom

Engineers, Quantity Surveyors, Technical Officers and other professionals engaged in Road & Building Construction Activities

Course Contents

- Introduction to EDM Instruments
- Data collection with Total Station
- Practical's using EDM Instruments
- Traversing (Open and Closed)
- Topographical Surveying using EDM instruments
- Setting out and advanced features
- Practical's on Setting out, Missing line and Remote Elevation, Data down loading, Making plan with AUTOCAD Software and area calculation

Duration

3 days

Medium

English (with sinhala interpretation)

Methodology

Lecturers, Practical's

SHORT COURSE ON LANDSCAPE GARDENING

To Whom

Those involved in landscape project as technicians, gardeners, garden helpers in the field

Course Contents

- Origin, history principles of Landscaping & Planning
- Horticulture, nursery management, pest & diseases controlling
- Soft landscaping & hard landscaping
- Floriculture
- Landscaping ecology, preparation of estimate & BOQ
- Introduction of new technology for landscaping
- Field Visit

Duration

5 days

Medium

English (with sinhala interpretation)

Methodology

Lecturers, Field visit

USE OF STANDARD METHOD OF MEASUREMENTS (SLS 573)

To Whom

Engineers, Quantity Surveyors, Technical Officers and other professionals engaged in the construction industry

Course Contents

- Girth calculation
- Taking off quantities for
 - ✚ Earth works for different types of foundations
 - ✚ Substructure , Superstructure & Roof
 - ✚ All finishing works

Duration

6 days

Medium

English (with sinhala interpretation)

Methodology

Lecturers, Assignment

WASTE WATER COLLECTION, TREATMENT, DISPOSAL & REUSE.

To Whom

Architecture, Engineers, Project Managers, Draftsman, Quantity Surveys, Contractors, Maintenance officers, Technical Officers other professionals engaged in the construction industry

Course Contents

- Why waste-water treatment?
- Objectives of - site waste-water treatment and disposal
- Design of on - site-waste - water treatment systems in compliance to code of practice SLS 745Part II:2009
- Introduction to waste - water collection systems
- Introduction on waste -water treatment and disposal /reuse
- Operation & Maintenance troubleshooting
- Important considerations in design of waste-water collection Network/Pumping stations
- Important considerations in design of storm water drainage systems
- Design aspects of waste stabilization pond systems
- Design aspects of activated sludge extended aeration systems
- Field visit

Duration

4 days

Medium

English (with sinhala interpretation)

Methodology

Lecturers, Field visit

SHORT COURSE ON FIDIC / SBD 2 CONTRACTS

To Whom

Engineers, Quantity Surveyors, Architects, Accountants, Auditors, Project Managers, Design officers, Contractors, Technical officers & Technical staff of stakeholders

Course Contents

- Introduction to FIDIC (and ICTAD contracts)
- Contract interpretation (sub - clause 1.2)
- Rules of interpretation and the legal background
- Letter writing
- Priority of documents (sub clause 1.5)
- The Employer (Clause 2)
- The Engineer (Clauses 3)
- The contractor (Sub-Clauses 4.1, 4.3, 4.10 -4.12)
- (Design liability, Design-Build, liability for “fit for purpose)
- Risk of access , commencement , Appointments
- Delayed drawings or instructions (Sub - clause 1.9)
- Time, extension of time, completion (Clause 8)
- Employers Taking over (Clause 10)
- Defects liability (Clause 11)
- Financial Procedures (Clauses 12,13 & 14)
- Employers claims (sub - clauses 2.5)
- Claims, Disputes and Arbitration (Clause 20)
- (Notices : Claims in Contract tort, Restitution, Loss, damages, remoteness)

Course Contents

- Assignment (Sub clause 7)
- Subcontracting (sub -clauses 4.4, 4.5 & Clause 5)
- Free issue material (Sub clause 4.20)
- Tests on completion (Clause 9)
- Tests after completion (Clause 12 of P & DB EPC)
- Termination by employer (Clause 15)
- Suspension and Termination by contractor (Clause 16)
- Risks and Responsibility (Clause 17)
- Force Majeure (Clause 19)

Duration

3 days

Medium

English (with sinhala interpretation)

Methodology

Lecturers

DATA CENTRE DESIGNING

To Whom

Modeling and designing a data center's IT resources, architectural layout and entire infrastructure. It enables the logical conception of a data center prior to development or implementation in an organization or IT environment.

Course Contents

Introduction

What Is A Data Centre?

Importance of the Design Project Management Process

Scoping the Requirement

Raised Access Floors

Cabinets

Cabling (Copper & Fiber Optics)

Data Centre Cooling

- Cooling Review
- Regulatory Climate
- Environmental Parameters
- Collecting the Heat
- Heat Rejection or Reuse

Data Centre Power

- Power Review
- Power Regulation
- Power Basics
- Power to the Data Centre
- Distribution in the Data Centre
- Standby Power

Course Contents

Data Centre Management

- Overview of Project & Project Management Methodologies
- Managing the Design Process
- Managing the Design Implementation Process

Data Centre Efficiency

- Energy Use
- Data Centre Metrics
- Best Practices
- IT Infrastructure & Environment
- Power Systems
- Cooling Systems
- Efficiency Models

Duration

2 days

Medium

English (with sinhala interpretation)

Methodology

Lecturers

Two day training Workshop on Industrial Pollution Control and Occupational

To Whom

Architecture, Engineers, Project Managers, Draftsman, Quantity Surveys, Contractors, Maintenance officers, Technical Officers other professionals engaged in the construction industry

Course Contents

Understanding of Wastewater Treatment/ Methods of Treatment / Legal Aspects of Water Treatment

- Requirement of Industrial wastewater treatment and introduction
- primary treatment / chemical treatment
- Biological treatment/ Tertiary treatment
- Legal aspects related to water treatment requirement

Chemical store management to accident prevention

Industrial Safety & Health

Accident Prevention (Part 1)

(a) Basic Provisions of the Factories Ordinance

- Accident Notification
- Dangerous Occurrences
- Industrial Diseases
- Machine Guarding
- High Risk Machinery

(Steam Boilers, Air Receivers, Gas Receivers, Cranes & Hoists)

Accident Prevention (Part2)

- (b) Types of Accidents & Compensation
- (c) Unsafe Acts & Unsafe Conditions
- (d) Safe Use of Electricity
- (e) Personal Protective Equipment

Course Contents

Noise & Acoustics.

- **The Fundamentals of Sound**

- Basic Characteristics of sounds
- Basic Principles of Noise Control
- Occupational Noise
- Noise Management
- Noise Guidelines
- Training and education

- **Physical Working Environment**

- Fundamentals of Physical Working Environment
- Light (Illumination Levels)
- Heat Levels
- Vibration
- Ventilation
- Radiation

Duration

2 days

Medium

English (with sinhala interpretation)

Methodology

Lecturers

For More Details Pl. contact :

Assistant Director : 011-2785628
Training Officer No : 011-2785712
General Office No : 011-2787661
Viber/WhatsApp : 070-2372373

Fax: 0112785629 **Email:** cida.chpb@gmail.com **FB page :** Cida Chpb **Web:** www.cida.gov.lk

Address : Center for Housing Planning & Building, #33, Parliament Road, Pelawatta, Battaramulla

Hostel facilities are also available on request.