

Protrainy

Making you Industry Ready [®]



5 IN 1

Quantity Estimation

+ Rate Analysis

+ Billing + BBS +

Survey Layout



WHY THIS COURSE?

- **Bar Bending Schedule (BBS) is basically the representation of bend shapes and cut length of bars as per structure drawings. BBS is prepared from construction drawings. For each member separate BBS is prepared because bars are bended in various shapes depending on the shape of member.**
- **A Quantity Surveyor (QS) is a construction industry professional with expert knowledge on construction costs and contracts. Quantity surveyors are responsible for managing all aspects of the contractual and financial side of construction projects.**



COURSE CONTENT





1. BASICS & INTRODUCTION

- What is Project and different stages of Project.**
- Introduction to Estimation**
- Roles and responsibilities of Quantity Surveyor**
- Basics of Excel used for Estimation**

2. QUANTITY ESTIMATION OF COMPLETE BUILDIN PROJECT

- Quantity of Excavation for Isolated Foundation and site cleaning work
- Quantity of concrete and shuttering in column neck
- Estimation of brickwork and ground beam concrete
- Quantity Estimation of Sub Structure Part
- Quantity Estimation of Super Structure Part
- Estimation of concrete and shuttering of dog legged Staircase
- Estimation of plaster, fifinishing work (deduction rule)
- Preparing complete BOQ document



3. RATE ANALYSIS

- **Rate analysis of Brickwork, Concrete work, Plaster work, Painting & finishing work.**
- **Estimating the labour quantity according to DAR**
- **Concept of Material Reconciliation**
- **Concept of Rolling margin of steel**
- **Basics of Billing**



4. BAR BENDING SCHEDULE PRO

- ❑ **Concept of load distribution and bend deduction.**
- ❑ **Preparing BBS and calculating steel for Footing (Isolated & Pile)**
- ❑ **Preparing BBS and calculating steel for different types of stirrups & columns**
- ❑ **Preparing BBS and calculating steel for different cases (frames) of continuous beams.**
- ❑ **Preparing BBS of one way & two-way slab and calculating quantity of steel required**
- ❑ **Preparing BBS and calculating steel for staircase**





5. BILLING

- **Basics of Billing (How to perform billing)**
- **Types of billing**
- **Roles & Responsibilities of Billing**
- **RA Bills, DPR, Measurement sheet**



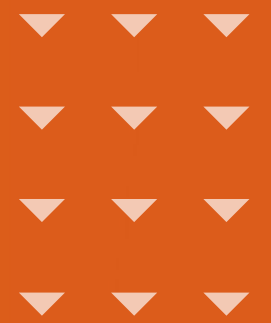


6. SURVEY & LAYOUT

- ❑ **How to perform layout at site (centerline layout)**
- ❑ **Earthwork**
- ❑ **Basics of surveying using auto level instrument**
- ❑ **Survey work for road and drain (Estimate cutting & filling)**
- ❑ **How to make RL Profile**
- ❑ **How to make contour**



PROJECT

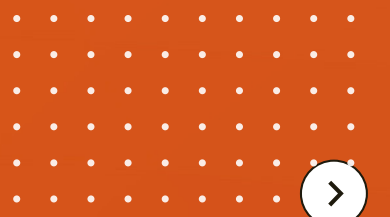


- **Covering the complete quantity estimation and BBS of residential building**
- **Preparing the BOQ document as per the government norms**



COURSE OUTCOME

- **Layout & Earthwork at site**
- **Surveying using auto level**
- **Survey of road & drain, how to make RL profile**
- **Quantity Survey, Estimation & Costing of complete Residential Building. (Case study)**
- **Bar Bending Schedule of Footing, Column, Beam & Slab (Foundation to Roof Level)**
- **Basic Rate Analysis for Various Items, Thumb Rules for Quick Calculations**
- **Excel Basic Commands and How to Prepare & Use Excel Sheets for Quick Calculations**
- **Preparation of BOQ document, concept of rolling margin, reconciliation and calculation of labour required.**
- **Basics of Billing, Type of billing**
- **RA Bills, Measurement sheet and how to perform billing.**





SCHEDULE

ADVANCE THE COURSE IN JUST 30 DAYS

(ASSIGNMENT & PROJECTS INCLUDES)



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