

Basic Estimating, Budgeting & Billing Advance Cost Controlling & Value Engineering

“ Estimation & QS studies at Infini helped me upgrade my skills, broaden my perspective and build confidence in becoming a professional Engineer. Practical based approach, new proven tools and techniques and training of latest software created the best career platform for me as a Quantity Surveyor. ”

- **Vijaykumar Kshirsagar** (Infini Alumnus)





Estimating, Budgeting & Billing of Building projects

Basic
40 hrs

Cost Controlling & Value Engineering

Advance
25 hrs

What makes it the best : Working on real time case studies, solutions to your existing site issues & training by highly experienced consultants. Free session on MahaRERA overview.



Offline Batch

Sunday batch

7 hrs/day

9.30am to 1.00pm

2.00pm to 5.30pm

Online Batch

Monday to Friday

1.5 hrs/day

7.00pm to 8.30pm

Quantity surveyors use their skills to determine the cost of building work ranging from residential properties to assessing the construction value of new multi-million dollar office towers.

Quantity Surveyors are involved at various stages of the construction process, typically prior to construction, during construction and following completion of the works.

The role of Quantity Surveyor

Quantity surveyors work with accountants, architects, engineers, builders, building owners, developers, financiers, government, valuers, and subcontractors.

The quantity surveyor's detailed knowledge of construction costs allows them to perform the following tasks:

Prior to Construction

- Estimating to define project budgets
- Analysis of the effect of design changes on the project budget
- Cost planning to refine the budget as the design documents develop
- Preparation of Bills of Quantities to assist in the tender process
- Reviews of Builder's tender submissions

During Construction

- RA billing for client / contractor
- Provision of cost control services during construction
- Assessment of variation and delay claims

Post Construction

- Determination of the final project cost



GET A CAP OF QS / COST CONTROL ENGINEER

Who shall do this course (Eligibility)?

For Basic course Diploma civil with min. 1 year of experience or BE Civil or Architectural students or professionals having interest to go into Estimation & Billing area. Basic application of AutoCAD to take measurements and basic excel is necessary.

For advance course in Cost Controlling and Value Engineering, 4 to 5 yrs on-field experience + QS exposure is necessary.

What are the job opportunities?

This certification opens the door of positions like Quantity surveyors, Estimation engineers, Billing engineers, Cost estimators particularly in the Real Estate sector.

Is there any placement support?

Yes, Infini's student gets placement support after completion of this course. Though the guarantee is not taken to place you, few contacts of job opportunities are shared with you.

Why should you learn?

Every building has its price. Accurately forecasting the cost of future projects is an important skill for civil engineers and cost estimators.

How should you learn?

Quantity takeoff helps you to takeoff quantities of all items of an entire building project from foundation till finishing items. The software provides greater flexibility than typical databases or spreadsheets, enabling a smoother, more accurate work-flow for cost estimators. But in the absence of mastering this technique manually, you may become just a **software operator** and not a **good Engineer / Estimator**. Software will support you enhance your proficiency and not the logic / fundamentals. Let software not replace your talent.

What is the Software base to this training?

You will be exposed to AutoCAD for reading various drawings, and excel for doing rate analysis and preparing BOQs, budgets, dash boards, reports.

What is the learning method / pedagogy?

All the fundamentals are taught from the point of view of their on field practical applications. Actual drawings are shared with you to study and learn skills of taking-off quantity. Visit(s) are arranged / live cases are discussed to make you understand principles of measurement and preparation of BBS. Assignments are given for study and confirmation of actual learning.

How does assessment take place?

After completion of major learning / topic, there is an assignment to judge your level of understanding of that particular chapter. Assessment will be carried out during day to day learning with the help of assignment or Q-A sessions. Your performance is tracked and finally converted into 'Grade' which is reflected on the certificate.

A+: Excellent; A : Very good; B : Good; C: Satisfactory



What is the course syllabus?

Mandatory requirement : Basic Excel and AutoCAD working, various drawing reading, item specification & unit conversion knowledge is mandatory. You may request for extra training, if required, to be completed beforehand which will cost you extra.

Preparatory module(Briefing Session)

- Role of QS in various project stages
 - Drawing reading (Hard, AutoCAD drawings)- Architectural, Structural and MEP
 - Conversion of units & conversion of rates
 - Reading item specifications of major building items
 - Review of Excel and AutoCAD for QS
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Estimating & Budgeting

- Principles of measurement of major building items
- BBS for footings, column, beam, slab, staircase, lift
- Quantity take-off of major building items
- Rate analysis of major building items
- Types of estimate
- MEP item estimate (basic)
- Prepare various reports (Budget Report, Actual Report)

Billing

- Client and contractor billing
 - Debits / Deviations
 - Extra item / non tender item billing
 - Reconciliation
 - Contracts Administration
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Cost Controlling & value Engineering

- Project budget and its heads
 - Tender preparation
 - Cash flow preparation and budget monitoring
 - Legal aspects and contractual obligations
 - Material reconciliation
 - EOT claims
 - Cost controlling by various options (Case studies)
 - Value Engineering - Concept, Application and Practices
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Learning outcomes

- Use of principles of measurements
- Preparation of BBS and BOQ
- Use of relevant code of standards
- Accurate taking-off quantities of various items
- Rate analysis of major items
- Preparation of project budget, its monitoring
- Cash flow preparation
- RA billing; Billing for sub-contractors & clients
- Create summaries and detailed quantity surveying reports accurately



How to pass and avail certificate?

You need to attend all sessions, complete all assignments, appear for an external viva, if any, and pay all fees to be eligible for the certificate.

What are the requirements / pre requisite to undergo this training?

Knowledge of basic AutoCAD and Excel is necessary. You need to be a positive learner. You shall bring a scientific calculator, a measuring tape. Assignments shall be completed and submitted on time. 90% attendance is compulsory. Generally deliveries are not repeated.

Language of instruction

English. (Marathi or Hindi if necessary)

Tutors

Ajaykumar Patil

BE Civil, Chartered Valuer, Dip. in Contracts Mgmt. (NICMAR)
25 yrs plus exp. Cost Estimation & Project Budgeting, Tendering,
Design Co-ordination, Contract Administration and Dispute
Resolution, Project Planning and Monitoring, Bill / Cost Auditing,
project auditing, Value Engineering, Valuation of Property. He
worked on variety of projects such as commercial, housing, malls,
IT, Industrial etc.



Positions held:

Vice President (Product Design & Engg. Dev.) - Gera Dev.;
Sr. Manager (Project Co-ordination) – Phoenix Market City;
Manager (QS / Contracts) – Westin Hotels; Asst. Manager (Projects)
– SPCL; Project Engineer – JMC Projects

Nikhil Agrawal

BE Civil, MTech (Str)
16 yrs plus exp. in Designing, Developing and Delivering of
Residential, Commercial & Industrial structures, Warehouses,
Loading Platforms and Stadium, water treatment plants, bridges
etc. Worked with Indian and British standard. Having expertise to
use software viz. Soule, Newton, Revit, Auto CAD, Excel.



Positions held:

Project Director – Goel Ganga Group; Manager (Estimation)- Rohan
Builders; Head (Design, Planning & Estimation) - Goel Ganga; Head
(Rebar, USA department) -TECZOOM

Why choose us?

We build trust at infini. Along with quality delivery,
at infini you are ensured to get



by EAL, UK



Right
Approach



Right
Curriculum



Right
Trainer



Right Study
Environment



Right Skills
Development

About Infini:

Infini Institute is a companionship of Civil Engineers & Architects formed with a motto of imparting value added competency skills enhancement training to the construction personnel, students and faculties at all levels to transform them into professionals. We are EAL, UK recognized center, 1st such center in India.

1 Yr Full time Course - PG program in Construction Project Management (International Certification)

Short Term Certification Programs -

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|-------------------------------------|---|
| - BIM for Construction | - Estimation, Billing & Budgeting |
| - MS Project for Project Planning | - Construction Quality Control |
| - Concrete Technology & Formworking | - Excel, AutoCAD, Word & Power Point |
| - Construction Site Management | - Item Specifications & Drawing Reading |

Upcoming courses -

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|---|---|
| - Value engineering & Cost control | - Certificate in MEP |
| - Construction Procurement Management | - Tendering & Contracting of Civil Projects |
| - Executing & Managing Highway projects | - Property Valuation |
| - ERP applications in Civil | - Modern Formwork Systems for Concrete |

Other Services -

- Accelerated Skills Development Programs tailor-made for companies
- Customised Management Development programs
- Customised Execution Development programs
- Educational reformations & consultancy for universities