







OFFLINE COURSE

BUILDING MASTERY PROGRAM

A Complete Practical Training for
Building Construction Projects

-  Quantity Surveying of Building
-  Billing Engineering
-  Rate Analysis
-  Bar Bending Schedule
-  Start to Finish Building Construction works
-  BOQ (Bill of Quantity)

REINFORCE
Civil Engineers Training Institute


ISO 9001:2015
Training Certified


Actively Learning with
Real Time Projects


Practical Learning
Environment

Fees	Duration
₹25,500/-	3 Months


**NEW BATCH
EVERY MONTH**

1ST & 15TH

About Us

Reinforce QST Private Limited is an ISO certified training Institute which was established in 2016 with a focus on providing students with practical knowledge and industry-relevant abilities in different Construction fields. We have dedicated ourselves to offering the best training programmes for ambitious professionals and trainees in the field of civil engineering since then. Reinforce QST recognises the value of hands-on experience in the discipline of civil engineering. Our training courses are created to bridge the gap between academic learning and practical application. We are pleased that many of our trainees/students /professionals were able to get work in reputable companies after completing our training courses. We have effectively benefited and empowered over 1 lakh trainees through different modes of training. Most of them are working in reputed companies at different superior designations across India.

Reinforce QST Private Limited institute has also provided training to a myriad of Construction Companies like Patel Engineering, DLF, L&T, etc. We have conducted more than 100 seminars and over 500 workshops in the field of Construction Industry in different colleges and construction companies across the country.

Vision

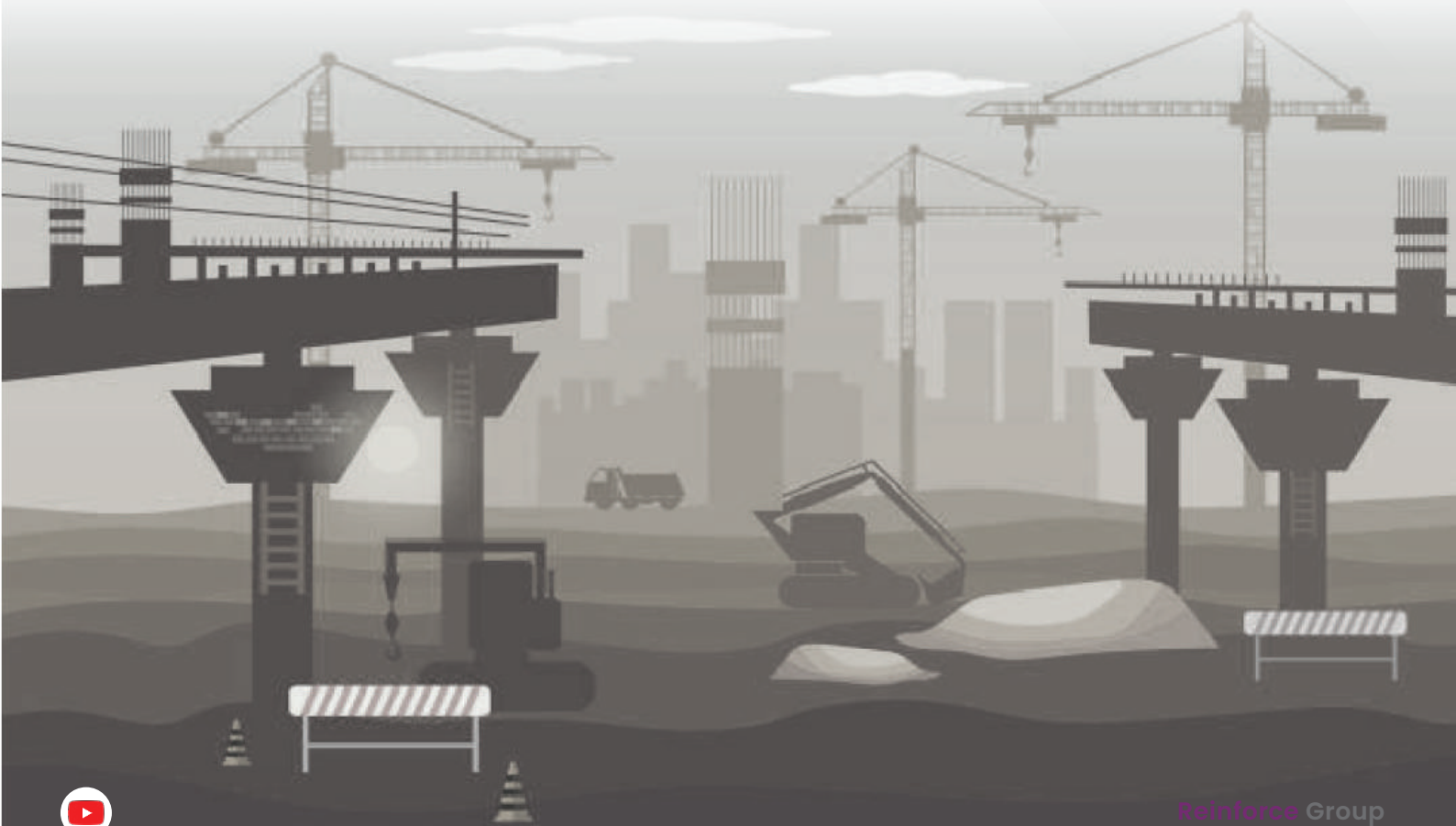
Our main objective is to train civil engineering students and civil engineer working professionals by providing them hands-on experience. Our main goal is to enable our professionals and trainees to secure profitable employment prospects. We work hard to provide training to students/work professionals/students of Civil Engineering as per Industry Norms and Regulations enabling them to acquire fulfilling work prospects and enhance employability. Having been in business for more than eight years, we have made a name for ourselves as a reliable and trustworthy training provider for the civil engineering sector. Every training session is enhanced by the depth of knowledge and useful insights provided by our staff of knowledgeable trainers and educators.



Professional Training Courses

Master the most in-demand skill of Construction Industry, Engineering & Achitecture and boost your career

Get trained from Industry Experts worked at



Training Glimpses :



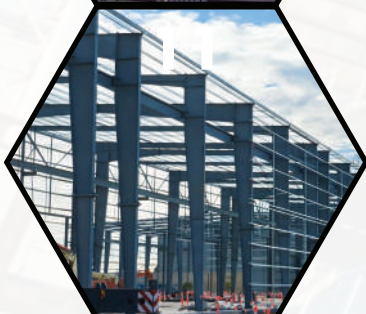
Provides Training In:

Buildings



- 1. Low Rise Building
- 2. Residential Building
- 3. Skyscraper
- 4. High Rise Building

Commercial



- 9. Hospital
- 10. Shopping Mall
- 11. Pre - Engineering Building

Infrastructures



- 5. Highway Project
- 6. Metro Project
- 7. Bridge Project
- 8. Expressway

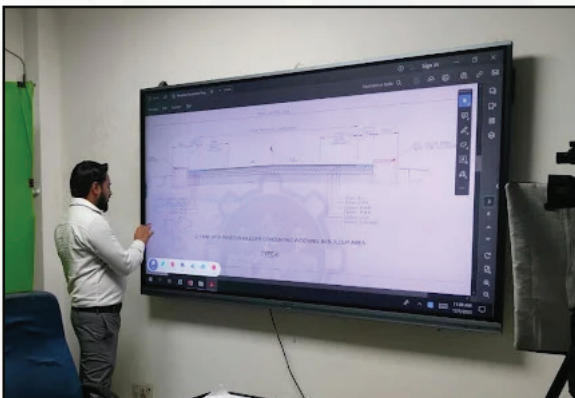


Training Process

This is our tried and tested training process method that helps to provide you with noticeable improvements in efficiency and communication among employees with the practical skills as per construction demand.



On-site Training



In-Class Training



Assessment & Certification

Offline Training :

Training Module

Fee : ₹ 25,500/- Only

1. **Date :** 1st Day of every month
2. **Duration :** 3 Months
3. **No. of Hours :** 90 or above
4. **Schedule :** Monday to Saturday
5. **Time :** 10 am - 12 pm

Features

1. Offline Live Training at Reinforce Office
2. Live Interaction with Trainer
3. Doubt Clearing Sessions
4. Govt. + ISO Certification on completion
5. Assignments
6. Notes, PPT, Drawings, Excel Format will be provided
7. Job Assistance
8. Life time trainer assistance for doubt
9. Special presentation for interview preparation
10. Industry Oriented Training Module
11. Project based training
12. Weekly Site Visit
13. Training module based upon Govt. Norms, IS code, MORTH, CPWD, etc.

Offline Training : Building Project

Day 1

1. Introduction to Building Construction & Types of Buildings.
(As per NBC)

Day 2 to 3

2. Brief Introduction to Quantity Surveying & Role of Quantity Surveyor.
3. Sequence & Schedule of work of Building Construction with all Standard Norms.
4. Brief Study of Building structure from foundation to top level of building.
5. Brief study of construction materials and diff items & their technique involved in construction work.

Day 4

Different type of Layout Work on site

Day 5 to 6

Daily Site related required documents (In Excel format)

- a) Making of DPR (Daily project Report)
- b) Making of PO (Purchase order)
- c) Making of Snag list

d) Making of Quotation

e) Labour Report

Day 7

6. Brief study on IS code (1200) - Method of measurement for all items

Day 8

7. Discussion on All other IS code/CPWD Norms used for Building work (like IS 456:2000, IS 2502, Analysis of Rates etc.)
8. Detailed Estimation work of diff types of Building structure by Live Project Drawings on MS-Excel Sheet.
9. Basic Estimation by AutoCAD Drawings & Extract on MS-Excel Sheet.

Day 9

10. Introduction to diff type of Earthwork.
11. Method of Measurement for Earthwork as per IS 1200 Part (1)
12. Estimation of Surface Dressing by Live Project Drawing on MS-Excel Sheet.
13. Estimation of Excavation by Live Project Drawing on

MS-Excel Sheet.

14. Estimation of PCC work by Live Project Drawing on MS-Excel Sheet.

15. Estimation of Backfilling in Layers as per CPWD norms

16. Introduction of waterproofing for foundation

Day 10

17. Introduction to Formwork & its types (Shuttering, Centering & Staging).

18. Method of Measurement for Formwork as per **IS 1200 part (5)**.

19. Estimation of Formwork by Live Project Drawing on MS-Excel Sheet.

20. Estimation of Extra items in Formwork (In Rate Analysis).

Day 11

21. Introduction of Concrete & its diff grades. (IS 456:2000)

22. Estimation of Concrete Work for the following R.C.C. members by Live Project Drawing on MS-Excel Sheet.

(G+11 Project)

a) Footing (G+2)

Day 12

b) Raft (G+11)

Day 13

c) Pile foundation

Day 14

d) Lift wall/shear wall

Day 15 & 16

e) Beams

Day 17 & 18

f) Columns

Day 19 & 20

g) Slab

h) Staircase

Day 21

i) Rcc Water tank

Day 22

j) Mumty slab

k) Rcc bends

Day 23 to 26

23. Introduction to Interior Works.

24. Types of Brickwork & Mortar used for brickwork.

25. Method of measurement for Brickwork as per
IS 1200 Part (3)

26. Estimation of Brickwork by (G+2) Live Project Drawing on

MS-Excel Sheet as per as Standard Norms

(IS code / CPWD).

- 27. Introduction to the Plastering work.**
 - 28. Deduction conditions of plaster work as per IS 1200 Part(12)**
 - 29. Estimation of Plastering work(G+2) by Live Project Drawing on MS-Excel Sheet as per as IS code Norms.**
 - 30. Brief study of all types of flooring (Tiles, Marble & Granite)**
 - 31. Estimation of all types of flooring as per as IS code & CPWD Norms.**
 - 32. Brief study of different types of painting work as per as Market Standards & CPWD Norms.**
 - 33. Deduction conditions of Paint work as per IS 1200 Part(13)**
 - 34. Estimation of Painting work(G+2) by Live Project Drawings on MS-Excel Sheet.**
- Day 27**
- 35. Introduction of BBS (Bar Bending Schedule).**
 - 36. Introduction of IS Codes used for BBS**

37. Standard Concepts, Technique & Calculation of BBS of all RCC members of Building Project.

38. Bar Bending Schedule For the following RCC members (G+11 Project) with Excel Formats

Day 28

a) Footings (G+2)

Day 29 to 30

b) Raft (G+11)

Day 31

c) Pile

Day 32

d) Lift/shear wall

Day 33 to 34

e) Beam

Day 35 to 36

f) Column

g) Slab (crank bar)

Day 37 to 38

h) Staircase

Day 39

i) Rcc water tank

Day 40 to 41

j) Mumty slab

k) Rcc bend

l) Lintel

39. Introduction of Rate Analysis.

40. Rate Analysis for the following building items (works) as per market rate & SOR & DAR (CPWD).

- Earthwork
- Pcc
- RCC
- Shuttering & centering work
- Steel
- Brickwork
- Plaster work
- Floor work
- Paint Work Etc.

41. Machinery tools & plants output constant for building project work as per IS codes & CPWD Norms.

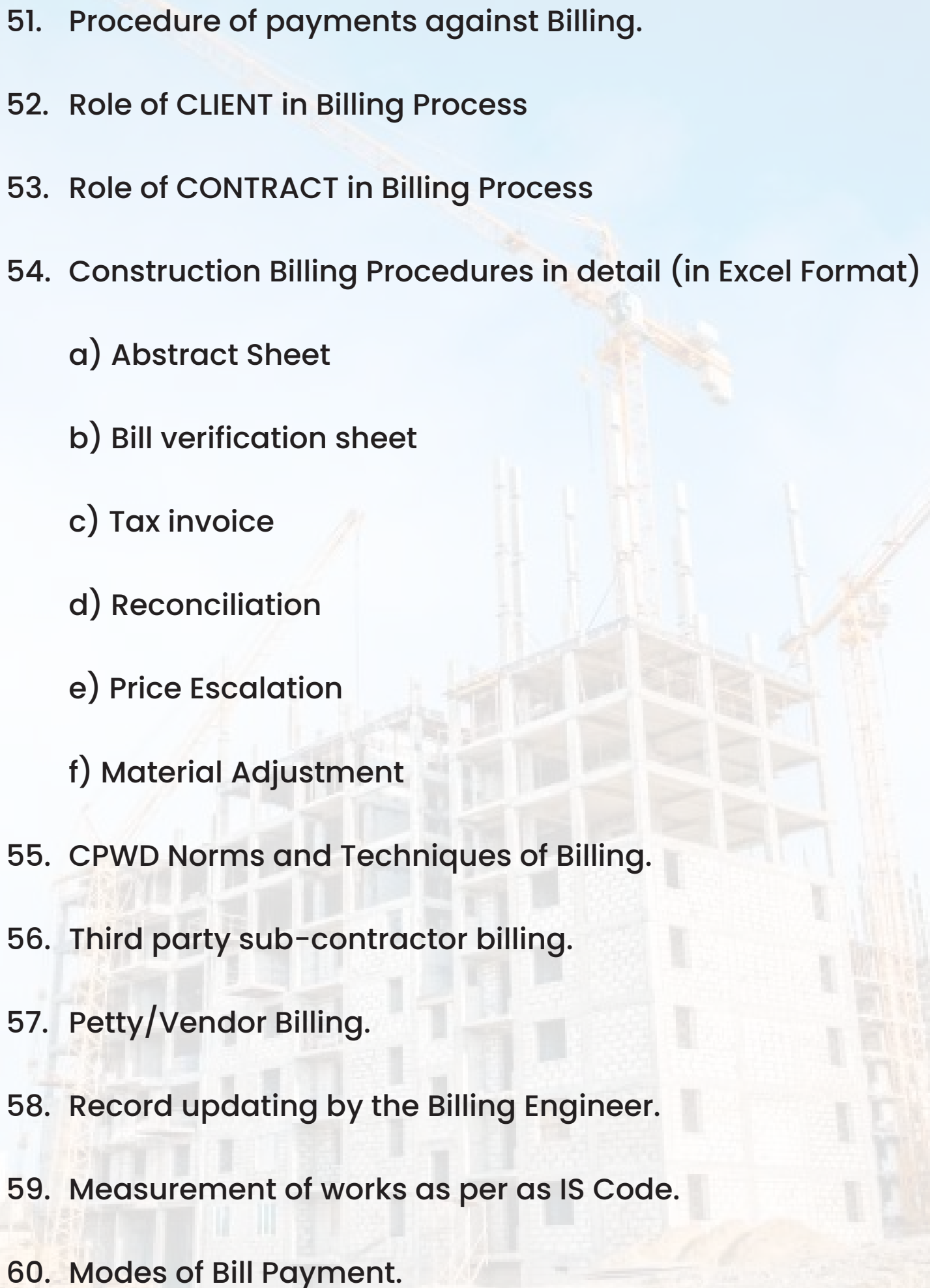
42. Labor output constant for building project work as per as IS code (7272) & CPWD Norms.

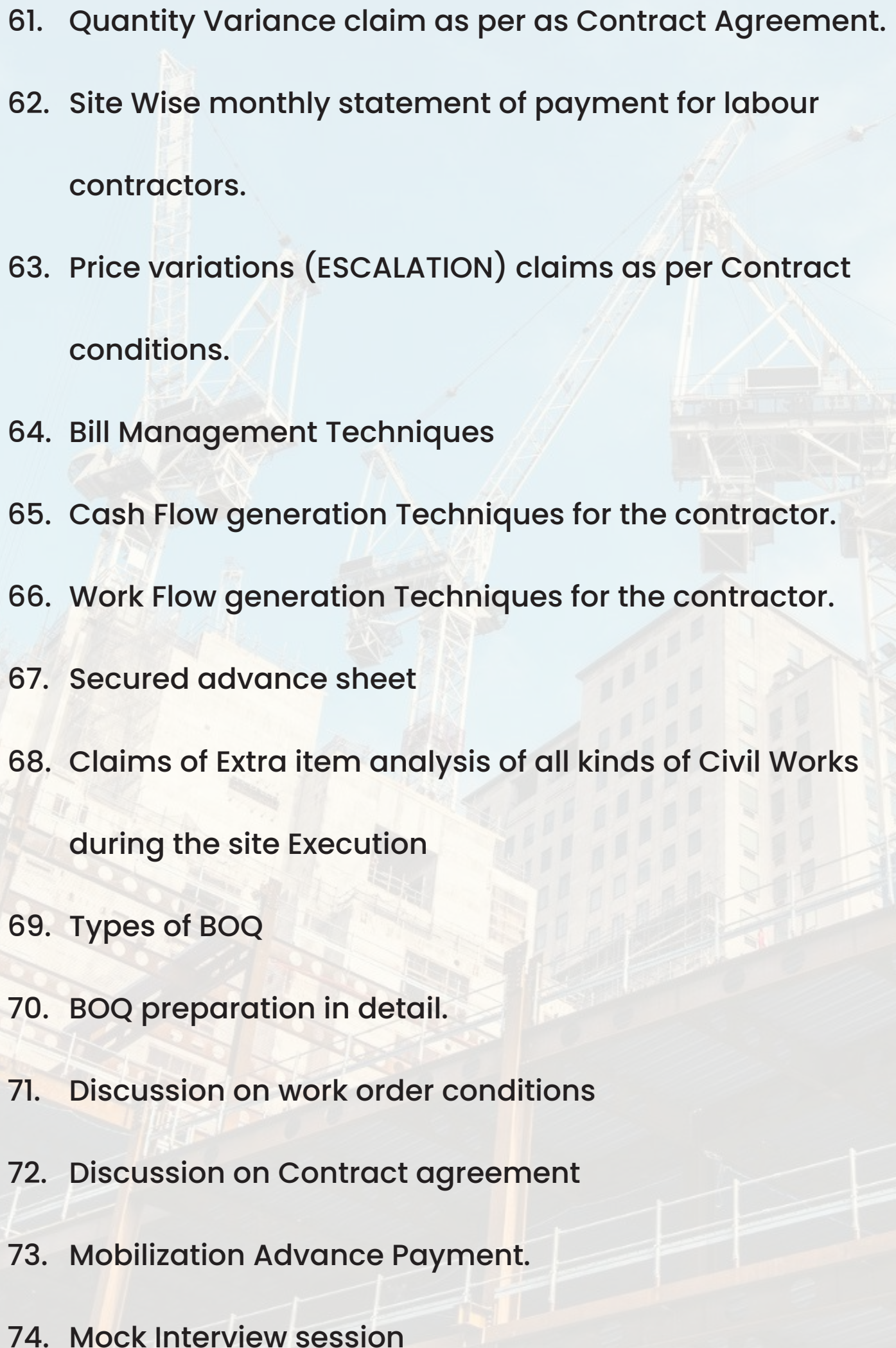
43. Introduction of BOQ (Bill of Quantities).
44. BOQ preparation as per as SOR & DAR Norms.
45. Experimental study of BOQ by contractor side & Rate Quotation Technique.
46. Mock Interview session / preparation for Q.S.

Day 45 to 48

Billing

47. Understanding the roles & responsibilities of Professional Billing Engineer in the construction work.
48. Types of Bills.
 - a) SLAB AREA/ PLINTH AREA / LUMP SUMP BILL
 - b) ITEM RATE BILL
 - c) MATERIAL RECONCILIATION
 - d) FIRST AND FINAL BILL
 - e) RUNNING ACCOUNT BILL
49. Procedure for preparing bills at the sites.
50. Checking of Bills.

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51. Procedure of payments against Billing.
 52. Role of CLIENT in Billing Process
 53. Role of CONTRACT in Billing Process
 54. Construction Billing Procedures in detail (in Excel Format)
 - a) Abstract Sheet
 - b) Bill verification sheet
 - c) Tax invoice
 - d) Reconciliation
 - e) Price Escalation
 - f) Material Adjustment
 55. CPWD Norms and Techniques of Billing.
 56. Third party sub-contractor billing.
 57. Petty/Vendor Billing.
 58. Record updating by the Billing Engineer.
 59. Measurement of works as per as IS Code.
 60. Modes of Bill Payment.

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61. Quantity Variance claim as per as Contract Agreement.
 62. Site Wise monthly statement of payment for labour contractors.
 63. Price variations (ESCALATION) claims as per Contract conditions.
 64. Bill Management Techniques
 65. Cash Flow generation Techniques for the contractor.
 66. Work Flow generation Techniques for the contractor.
 67. Secured advance sheet
 68. Claims of Extra item analysis of all kinds of Civil Works during the site Execution
 69. Types of BOQ
 70. BOQ preparation in detail.
 71. Discussion on work order conditions
 72. Discussion on Contract agreement
 73. Mobilization Advance Payment.
 74. Mock Interview session

Certificate Sample



Certificate

OF COMPLETION

Reg. No. : **HR/2021/21**

This is to certify that

RAVI SAINI
S/o - Gaurav Saini
on
08/03/2022

has successfully completed the Professional Certification Course

Quantity Surveying (Building Project)

Date of Issue : 10/03/2022

			 Rahul Koli (HR Admin)	 Sandeep Singh (COO)	 Nishant Kumar (Director)
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REINFORCE QUANTITY SURVEYORS AND TRAINING PVT. LTD.

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Verify the authenticity of the certificate at www.reinforceqst.com or Scan the QR Code





Thank You!

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