

OFFLINE COURSE

HIGHWAY MASTERY PROGRAM

A Complete Practical Training for
Highway Construction Projects



Quantity Surveying of Highway



Billing Engineering



Rate Analysis



Bar Bending Schedule



Start to Finish Highway
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



**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

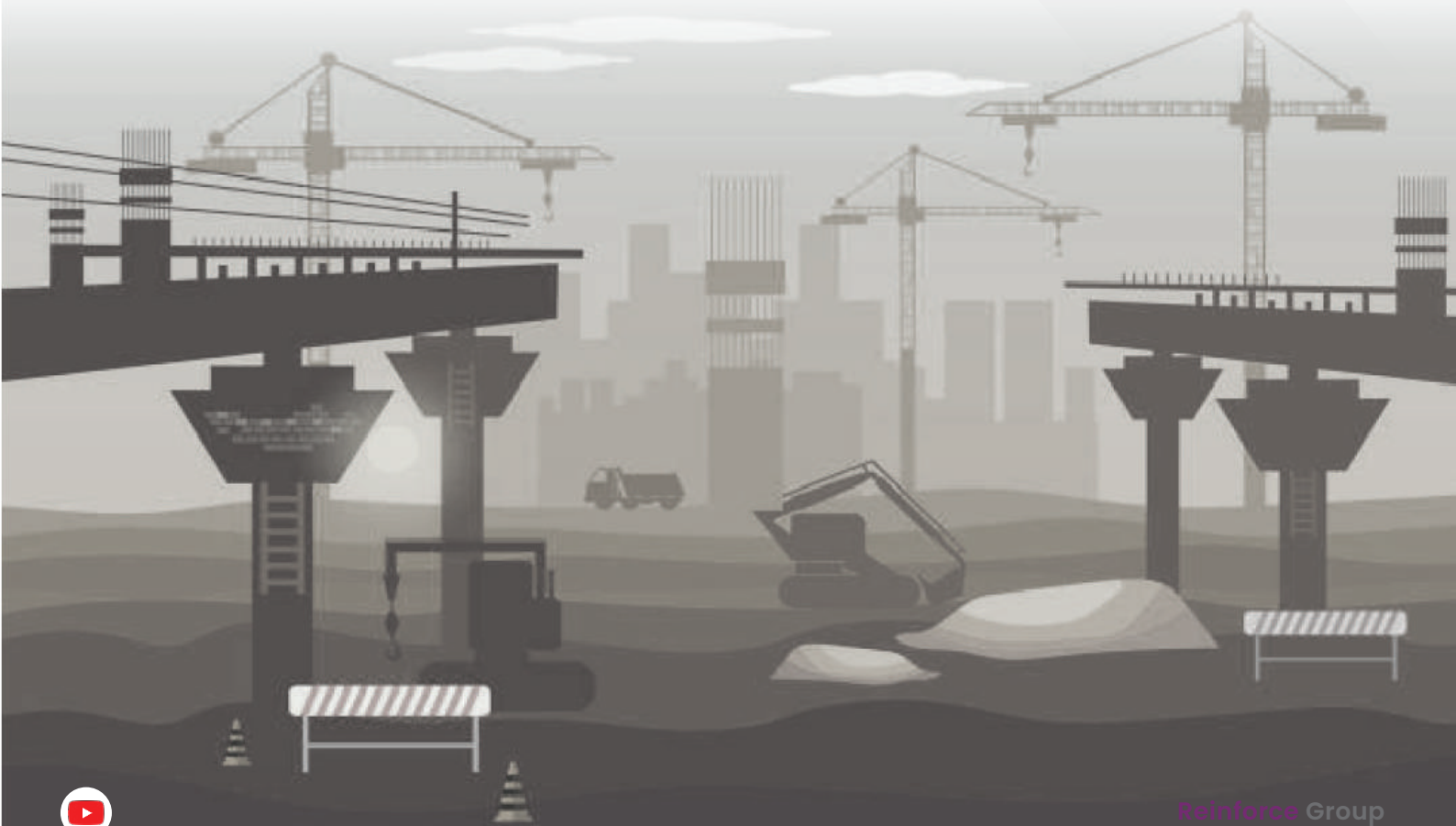
Our main objective is to train civil engineering students and civil engineer working professionals by providing them hands-on experience. Our main goal is to enable our professionals and trainees to secure profitable employment prospects. We work hard to provide training to students/work professionals/students 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 :



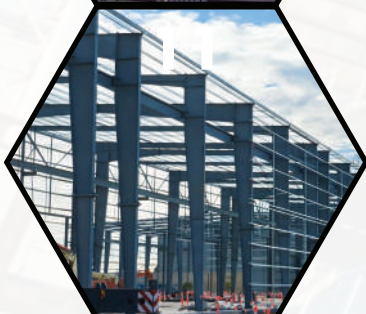
Provides Training In:

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

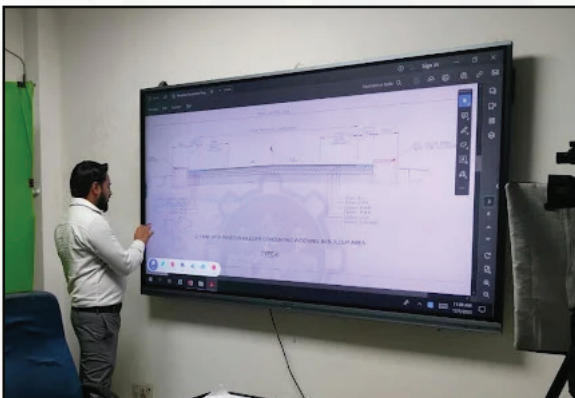


Training Process

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 Fee Structure **2026-27**

Courses	Fee	Duration
Quantity Surveying + Billing Engineering Building Project	₹16,500/-	45 Days
Quantity Surveying + Billing Engineering Highway Project	₹16,500/-	45 Days
Quantity Surveying + Billing Engineering Bridge Project	₹16,500/-	45 Days

Offline Training :

Training Module

Fee : ₹ 16,500/- only

1. Date : 1st Day of every month
2. No. of Days : 45
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 : Highway Project

Day 1

- 1) Introduction to road, highway & expressway
- 2) Classification of road as per MORTH

Day 2

- 3) Study of all components of road, highway & expressway

Day 3

- 4) Standard procedure for the construction of highway project with all the possible items and it's measurement as per MORTH

Day 4

- 5) What is OGL survey and how is it perform on site
- 6) What is FRL & how is it fix

Day 5

- 7) What is Embankment and standard procedure for the construction of embankment
- 8) Standard technical specification of embankment as per latest revision of MORTH

Day 6

- 9) Fundamental concept for the calculation of Earthwork qty. for the construction of embankment in filling & also cutting

10) What is pavement and it's types

Day 7

11) Difference between Flexible & Rigid Pavement

12) Layer of Flexible pavement

13) Layer of Rigid Pavement

Day 8

14) Step by step standard construction procedure of flexible pavement

Day 9 to 10

15) Standard technical specification of flexible pavement

layers that is subgrade, GSB, CTSB, WMM, WBM, DBM, BM,

BC, SDBC

Day 11

16) What is tack coat & prime coat and its standard procedure

Day 12

17) Types of drawing used in highway project

18) Drawing reading of TCS and P&P for road, highway & expressway projects

Day 13

19) Case study on national highway & expressway project (flexible pavement)

20) Qty. calculation of earthwork in filling and also cutting for the construction of embankment on excel sheet

Day 14 to 16

- 21) Qty. calculation of all layer as per drawing on excel
subgrade, GSB, WMM, DBM, BC
- 22) Qty. calculation of all the remaining possible items of
projects as per MORTH on excel

Day 17 to 18

- 23) Preparation of measurement sheet of all the possible items
of highway project on excel sheet

24) Types of Rigid Pavement

Day 19

- 25) Step by step standard construction procedure of rigid
pavement

Day 20

- 26) MORTH specification of all the layers of rigid pavement

Day 21 to 22

- 27) What is joint, why we provide, types of joint, standard
specification of joint

- 28) Standard specification of dowel bar & tie bar

- 29) Step by step process for the making of joint

Day 23 to 24

- 30) Case study on Highway & expressway project
(Rigid Pavement)

31) What is the road furniture work in highway and expressway project

Day 25

32) All the possible item's and it's measurements in road furniture work

Day 26 to 28

33) Preparation of measurement sheet of all the possible items of road, highway projects

Day 29

34) What is Rate Analysis, why we do?

35) Rate Analysis of all the possible items of highway project as per MORTH

Day 30

36) Labor Deployment Planning in different highway works

37) Machinery Deployment Planning in different highway works

38) What is BOQ, & its type

39) Preparation of BOQ as per MORTH (NHAI)

40) Preparation of BOQ as per SOR of different states

41) Mock Interview

Highway Construction Billing

Day 31

- 42) What is highway construction bills
- 43) What is billing engineering & it's roles and responsibility
- 44) Mode of implementation of highway projects

Day 32

- 45) Different modes of tenders in highway projects and it's

study

- a. Item rate
- b. EPC
- c. BOT
- d. HAM

Day 33

- 46) Standard procedure of highway construction billing
- 47) Important contract terms & conditions of highway project

Day 34

- 48) Analysis of different types of contract agreement and work order for highway construction billing

Day 35

- 49) What are different types of advance provided by client to contractor

50) What is price escalation and its terms & condition for NHA project

51) What is RFI, how to prepare it and its format

Day 36 to 37

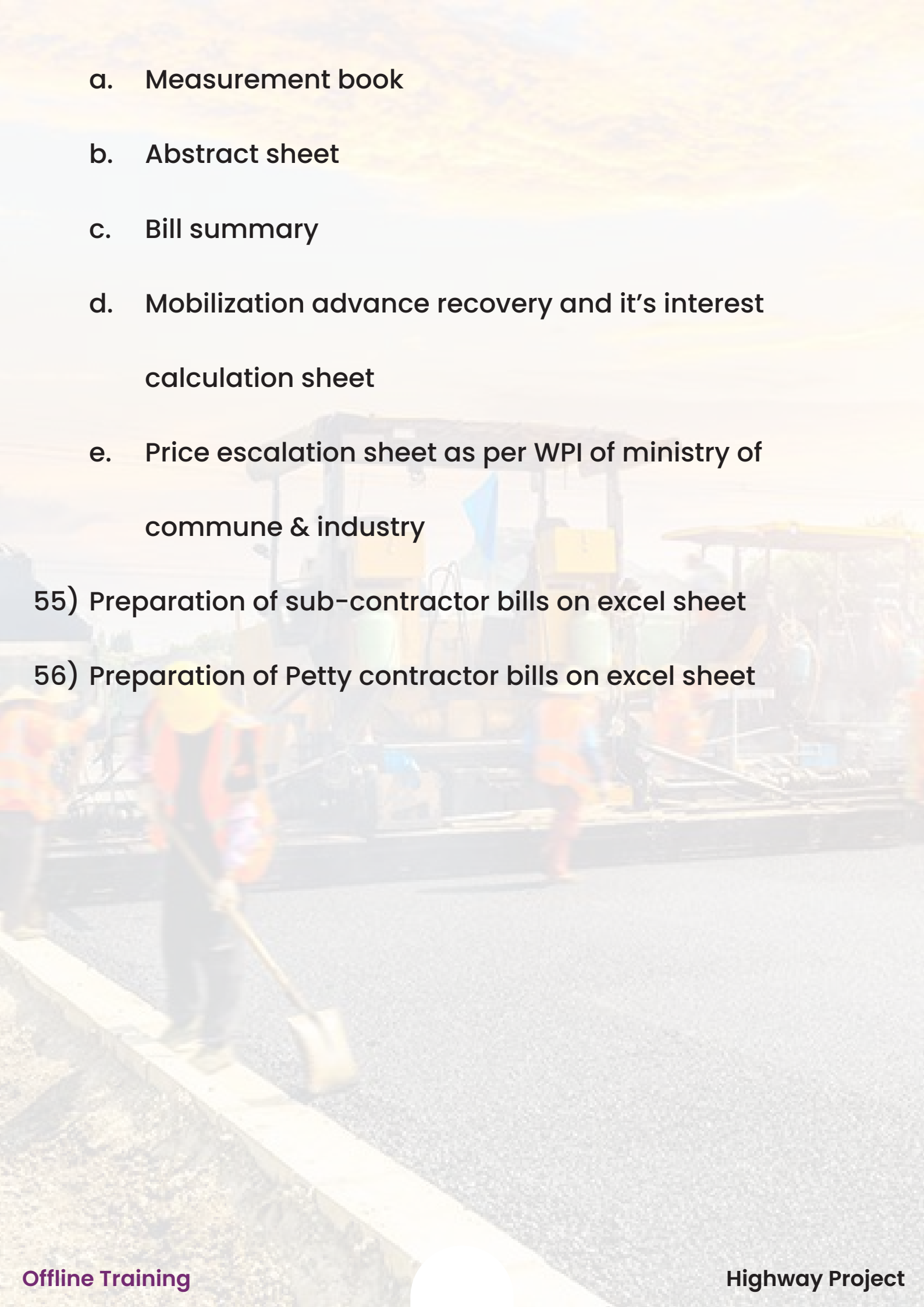
52) Highway billing in the case of item rate contract on excel sheet

- A. Preparation of Running Account bill
 - i. Measurement book
 - ii. Detail bill invoice abstract sheet
 - iii. Bill summary
 - iv. Mobilization advance recovery and its interest calculation sheet
 - v. Price escalation sheet as per WPI of ministry of commerce & industry

Day 38 to 40

53) Preparation of final bill

54) Highway billing in the case EPC contract preparation of stage payment statement

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- a. Measurement book
 - b. Abstract sheet
 - c. Bill summary
 - d. Mobilization advance recovery and it's interest calculation sheet
 - e. Price escalation sheet as per WPI of ministry of commune & industry

55) Preparation of sub-contractor bills on excel sheet

56) Preparation of Petty contractor bills on excel sheet

Certificate Sample

REINFORCE

Certificate

OF COMPLETION

Reg. No. : **HR/2016/21**

This is to certify that

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

has successfully completed the Professional Certification Course
Quantity Surveying (Highway Project)

Date of Issue : 10/03/2022

   
Rahul Koli
(HR Admin)


Sandeep Singh
(Trainer)


Nishant Kumar
(Director)

REINFORCE QUANTITY SURVEYORS AND TRAINING PVT. LTD.

Phone No. : +919711155585 Email ID : info@reinforceqst.com CIN : U74999DL2016PTC305181

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





Thank You!

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