

GEN-STR-001 : ONLINE COURSE

Designed based on questions received from engineers

General
Training Program
for
STRUCTURAL ENGINEERS

25-APR-22
TO
30-MAY-22

 **LIVE**
SESSIONS

For students
and
working
professionals

<https://sqveconsultants.com/gen-str-001>

 **REGISTER
NOW!**

Mr. Bhavin Shah



INTRODUCTION

Structural engineering is indeed very vast area and there are ample opportunities for creating bright career. However, there is a huge gap between academics and the current industrial practices. Due to the same the students are not industry ready! At the same time, it is difficult to get internship in good organisation to get overview of the overall project cycle and office work.

We have received many questions from students of civil / structural engineering as follows:

- What is the prospectus in structural engineering field?
- How to prepare for an interview?
- My salary is very less...should I switch over the job?
- How to check structural drawings?
- I feel stagnant in my career...what should be done?
- How to climb the corporate ladder faster as a structural engineer?
- What are the steps involved for opening a new structural consultancy firm?
- and many more...

In view of the above, we have designed a unique online course **GEN-STR-001 : General training program for structural engineers.**

The overall objective of the course is to make aspirants industry ready so that they can handle the challenges more effectively.

The course will cover important aspects like prospectus in structural engineering field, preparation for interview, overall cycle of the project, general approach to design of any structure, overview of IS codes, career progression, authentication of software, interface with geotechnical engineers, importance of detailing, effective site visits, climb the corporate ladder faster, challenges in the profession and way forward, value engineering in structures field, etc. For details of each topic, please refer the detailed schedule in the last part of the document.

WHAT IS UNIQUE ABOUT THE COURSE?

- ✓ The course is designed by the **experienced engineer** Bhavin Shah who has more than two decades of experience in the field of structural engineering.
- ✓ During the course, the faculty will share **Tips and Tricks** which can be readily used in the real situations.
- ✓ The course is designed to have an **interactive mode** so that the problems / doubts of the participants can be effectively addressed.
- ✓ A WhatsApp group will be created for **quick communication** between the participants and the faculty. The participants will be able to share the discussion points, doubts, queries, etc. in the group. The details in the group will be collated for further discussion in the next session.
- ✓ All the sessions will be recorded and recording of each session will be shared **within few hours.** If someone miss out the live session then he/she can go through the recording before

attending the next session. The participants can share the doubts/queries in the WhatsApp group, after going through the recording which will be addressed in the next session.

- ✓ **Recording** will be available with all the participants for minimum **180 days**.
- ✓ **Certificate** will be issued on successful completion of the online course (minimum 80% attendance is required.).

WHO SHOULD ATTEND?

This course will be useful for following :

- ✓ **Civil engineering students who are interested in Structural Engineering**
- ✓ **Post Graduate students in Structural Engineering**
- ✓ **Young structural engineers having less than 3 years of experience**
- ✓ **Senior structural engineers who are interested in the content are also welcome**
- ✓ **Faculty members in structural engineering**
- ✓ **Research scholars**
- ✓ **Experienced Civil engineers who want to switch over career as structural engineers**

COURSE FACULTY

Bhavin Shah – Founder & CEO, SQVe Consultants



Mr. Bhavin Shah is passionate about Engineering profession with two decades of experience. He is having a dream for enhancing the engineering profession in different organisations. He completed graduation in Civil Engineering and Masters in Structures from Sardar Patel University. He is having unique experience of working in the specialized firm of civil / structural consultancy which grew as multidisciplinary firm (VMS), large multidisciplinary firm (L&T Chiyoda Ltd.) and owner based engineering set up (Adani Infra (I) Ltd.).

He started the journey as a structural engineer and got the opportunities for designing industrial structures of the diversified industries like, oil & gas, thermal power plants, renewable energy, manufacturing industries, etc. within India as well as outside India. Worked in different stages of engineering like, prefeasibility studies, basic engineering, detailed engineering, retrofitting of the existing structures, involved in forensic investigation for identifying root cause for collapse of the structures, etc.

Later, in complex engineering projects, he led cross-functional teams effectively for achieving the desired project goals. Along with technical role, he also involved actively for improvement in quality standards, people management, inspiring engineers, coaching & mentoring, upliftment of different departments, conflict resolutions, etc. at an organisation level.

He worked in different organisations at different levels, starting from junior design engineer to CEO. He is Founder & CEO of **SQVe Consultants**. He is pursuing Ph.D. in Structural Engineering related to earthquake resistant design of industrial structures.

METHODOLOGY

- ✓ The entire course is designed in the **ONLINE** mode.
- ✓ The course will spread over **five weeks** with **approximate 16+ contact hours**.
- ✓ The **live sessions** will be conducted using **ZOOM** software.
- ✓ During five weeks of time, the **interaction** can be done with faculty in the WhatsApp group as well as during the live sessions.
- ✓ During course, the participants will be encouraged to share their **real problems** so that we may receive diversified areas for the discussion.

COURSE SCHEDULE

Start Date	25-APR-2022
End Date	30-MAY-2022
Total contact hours	16+ (Sessions will be arranged on every Monday, Wednesday & Friday from 8:30 PM IST to 9:30 PM IST.)
Details of each session	Please refer subsequent pages for details of each session.

FEEES FOR THE COURSE**

For participants from India	Cost per participant shall be 4900 INR (inclusive of 18% GST).
For participants <u>outside India</u>	Cost per participant shall be 80 USD.

Notes : GST invoice is available.

**Discount offered:

- ✓ **For continuous learner:** If you have attended earlier one course of SQVe Consultants than **5%** of discount will be offered. For prior two courses, **10%** of discount will be offered. For three or more prior courses, **15%** of discount will be offered.

- ✓ **Group participation** from a company or institute is encouraged to get the discounts on this course. For more details, please contact us at :
earthquake@sqveconsultants.com

HOW TO REGISTER FOR THE COURSE?

Please click on the following link and thereafter click on “**Register Now**” button at bottom of the page. You will be directed to the **payment page**. Your registration will be confirmed after receipt of the payment at portal.

<https://sqveconsultants.com/gen-str-001>

Payment gateway at the above-mentioned portal is configured only for **Indian participants**. Interested foreign engineers can contact us at the email address : onlinecourses@sqveconsultants.com. An invoice will be shared through **PayPal or Stripe** for online payment.

Kindly note that there are limited seats.

Your any queries/ doubts related to the course shall be addressed to the above mentioned email address.

SCHEDULE OF THE COURSE : EQ-STR-002

Session no.	Brief details	Date	Time (IST)
1	Overview about structural engineering - opportunities in field of structural engineering, Why should I become structural engineer? How to decide your area of interest in structural engineering?, etc.	25-APR-22	8:30 PM TO 9:30 PM
2	Preparation for interview – how to prepare a resume?, preparation for interview, Do's and Don'ts in interview, follow-up after interview, what to do if you don't receive any response after the interview?	27-APR-22	8:30 PM TO 9:30 PM
3	How to start a career in structural engineering? – Step by step approach for beginning the bright career, get acquainted with company standards, IS codes, software, industrial practices, etc.	29-APR-22	8:30 PM TO 9:30 PM
4	What additional skills are required in the office work except technical skills? – Document management system, Meticulous approach, networking, Quality assurance, team work, communication skills, negotiation skills, understanding of other disciplines, etc.	2-MAY-22	8:30 PM TO 9:30 PM
5	What are the stages of a typical project? – Prefeasibility study, Basic engineering, Detailed engineering, Maintenance or retrofitting, forensic engineering, etc.	4-MAY-22	8:30 PM TO 9:30 PM
6	General Approach to design of any structure – Conceptual thinking, understanding functional requirements, performing manual calculations to arrive	6-MAY-22	8:30 PM TO 9:30 PM

Session no.	Brief details	Date	Time (IST)
	at approximate sizes of structural members, parallel work, performing computer analysis, design, how to communicate with cad technician? ,etc.		
7	How to read and interpret IS codes? – Process of formulation of IS codes, importance of understanding IS codes, Interpretation of IS codes, What to do in case of ambiguities, couple of case studies, etc.	9-MAY-22	8:30 PM TO 9:30 PM
8	What is authentication of the software? – Why authentication of software is required? How to authenticate software? Couple of case studies for the same, etc.	11-MAY-22	8:30 PM TO 9:30 PM
9	Importance of interface between geotechnical and structural engineer – Overall understanding of geotechnical engineering, preparation of scope for geotechnical investigation, review of geotechnical investigation reports, value engineering from the perspective of foundation engineering, couple of case studies, etc.	13-MAY-22	8:30 PM TO 9:30 PM
10	How to check design calculations and drawings? – How to check own design calculations manually? How to review design calculations prepared by others? How to check drawings? How to check constructability aspects in the drawings, etc.?	16-MAY-22	8:30 PM TO 9:30 PM
11	Importance of detailing in RCC and steel structures – Importance of detailing, how to approach detailing? Dos and Don'ts for detailing, etc. few examples of detailing, Get minimum site queries, etc.	18-MAY-22	8:30 PM TO 9:30 PM

Session no.	Brief details	Date	Time (IST)
12	How to prepare yourself for site visit? – Site visits of projects designed by yourself or by other engineers, preparation work before site visit, important points to be observed at site, making note of the points, taking pics, preparation of site visit reports, etc.	20-MAY-22	8:30 PM TO 9:30 PM
13	How to build bright career in big firms / MNC? – Tips and tricks for making the bright career, how to rise the corporate ladder faster?, People management, core technical skills, continuing learning, technical growth, etc.	23-MAY-22	8:30 PM TO 9:30 PM
14	How to start your own structural firm? – Technical skills, initial investment required, legal requirements, personal branding, how to get new clients?, scope of work, professional liabilities, etc.	25-MAY-22	8:30 PM TO 9:30 PM
15	Challenges being faced in structural engineering profession & way forward – Discussion related to IS codes, authentication of software, fast track projects, multi-tasking, demanding clients, Possible solutions and way forward for the problems...	27-MAY-22	8:30 PM TO 9:30 PM
16	Value engineering (VE) in Structural engineering – Innovative and out of box thinking, when VE can be implemented in the project? Why VE is required? Couple of case studies for VE, etc.	30-MAY-22	8:30 PM TO 9:30 PM

About SQVe Consultants

SQVe Consultants is a recently established innovative company with a vision of enhancing the engineering profession. The name of the company is derived from first letters of goals of engineering, i.e. Schedule adherence, **Q**uality assurance & **Ve** -Value Engineering.

Our major services are as follows:

- ✓ **Taking up research projects**
- ✓ **Assisting different structural consultancy firms for establishing processes and systems for improvement in efficiency and quality assurance**
- ✓ **Providing customised training to different structural consultancy firms**
- ✓ **Conducting regular live technical discussions**
- ✓ **Launching online courses for practicing structural engineers / students in the areas wherein general industry is facing practical difficulties, etc.**

Our ALL services are designed to have maximum of ONLINE interaction with the least OFFLINE interaction.

We look forward for long term association with different organisations for enhancement of engineering profession through our unique services.

For more details, please refer website : <https://sqveconsultants.com>

You may **contact us** at email address : contact@sqveconsultants.com

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