

# WELDING FOR STEEL STRUCTURES

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**ONLINE COURSE ID : STEEL-STR-003**

email address :  
steel@sqveconsultants.com

Link for registration: <https://sqveconsultants.com/steel-str-003>

## INTRODUCTION

Welding can become weak link in the steel structures if not designed appropriately or quality standards are not met. Hence, the welding is extremely important in the steel structures. Quality of welding is one of the major concern area for steel structures in our country due to lack of the qualified welders. Apart from structural design aspects there are multiples parameters or details involved in the welding which may be suitably addressed by metallurgy experts. Generally, the structural engineers have queries related to the welding such as selection of welding electrode, correct procedure for welding, welding defects, NDT tests for welding, specification in drawings/tender, details to be checked during site visit related to welding, etc.

In view of the above, we are glad to launch a unique online course **STEEL-STR-003** to address the above mentioned areas. The course will be conducted jointly by the experts in the field of metallurgy and structural engineering. The course is designed in an interactive mode so that the queries/doubts of the participants can be addressed effectively.

Brief about earlier online courses: STEEL-STR-001 & STEEL-STR-002:

We arranged online courses related to design of steel structures, named as **STEEL-STR-001\*** (Decode IS 800:2007 along with software) and **STEEL-STR-002\*** (design of connections for steel structures) which had been attended by 200+ engineers so far. We received quite encouraging feedback for the same and the next batches will be organised as per demand. Interested engineers can purchase access to recordings of the previous online courses STEEL-STR-001 & STEEL-STR-002. Also, you may inquire for the upcoming live batches for the same. Please send a request at email address: [steel@sqveconsultants.com](mailto:steel@sqveconsultants.com)

## WHAT IS UNIQUE ABOUT THIS COURSE?

The course is designed by the **experienced Engineers** (Dr. Jayanta Kumar Saha & Mr. Bhavin Shah) who have more than three decades of experience in the field of structural & Application Engineering.

- ✓ The entire course is designed from the **practical aspects** which can be readily used in the real life projects.
- ✓ The course is designed to have an **interactive mode** so that the problems / doubts of the participants can be addressed effectively.
- ✓ **Recording** will be shared with the participants for future reference.
- ✓ **Certificate** will be issued on successful completion of the online course (min. 80% attendance is required.)
- ✓ The course is designed as a **process of learning together**.

## WHO SHOULD ATTEND?

This course will be useful for the following:

- ✓ Practicing Structural Consultants
- ✓ Owner's consultant, Proof checking consultants
- ✓ Material Engineers or Metallurgists
- ✓ Senior Structural Engineers in the company having experience around 10+ years
- ✓ Structural engineer having 5+ years of experience
- ✓ PEB designers
- ✓ Young structural engineers having less than ~5 years of experience
- ✓ Post Graduate students in Structural Engineering
- ✓ Civil engineering students who are interested in Structural Engineering.

## COURSE FACULTY

**Dr. Jayanta Kumar Saha – Director, S J Engineering & Consulting and Visiting Professor (Calcutta University & IIT )**



**Dr. Jayanta Kumar Saha** have overall 38 years of experience. He worked with Institute for Steel Developments & Growth as General Manager & had pursued sponsored/technical projects on steel applications, metallurgical engineering, conducting skill development programmes for professionals and Engineering students.

He also worked Hindustan Aeronautics Ltd, CSIR: Central Mechanical Engineering Research Institute, and Philips India Ltd. Obtained B.E in Metallurgical & Materials Engg from IEST, Shibpur, M.Tech in Production Engg from IIT, Madras & Ph.D in Met & Matl Engg from Jadavpur University. Served as distinguished visiting professor under

AICTE-INAE Industry-Academic scheme for IEST, Shibpur & Jadavpur University.

Recipient of National Corrosion Awareness award from SSPC, Excellence in Corrosion Science & Technology from NACE International and Mascot award from ECSI, IISc Bangalore. Published 25 Guidebooks on structural steel, welding / fabrication, Corrosion & Fire protections, Reinforcement Bars, Stainless steel etc and 30 technical papers. Represented Bureau of Indian standards in MTDC, MTD4, MTD24 & CED54 committees & CII Corrosion Management council. Had been to overseas to carry out collaborative applied research work on steel structure protections from corrosion & fire.

## 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 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 steel structures.

## METHODOLOGY

- ✓ The entire course is designed in the **ONLINE mode**.
- ✓ The course will spread over ~**two weeks** with **approximate 11+ contact hours**.
- ✓ During training period, the interaction can be done with faculty and the participants using **WhatsApp**.
- ✓ Participants will have **ample opportunities** for raising their doubts / queries related to the subject.
- ✓ The online sessions will be conducted using **ZOOM** software.

## COURSE SCHEDULE

<b>Start Date</b>	<b>12-Dec-2022</b>
<b>End Date</b>	<b>27-Dec-2022</b>
<b>Total contact hours</b>	<b>11+</b> (Sessions will be arranged on weekdays from <b>8:15 PM IST to 9:45 PM IST.</b> )
<b>Details of each session</b>	Please refer subsequent page for details of each session.

## FEES FOR THE COURSE\*\*

<b>For practicing structural engineers, Faculty members, students <u>from India</u></b>	Cost per participant shall be <b>6800 INR</b> (inclusive of 18% GST).
<b>For practicing structural engineers, Faculty members, students <u>outside India</u></b>	Cost per participant shall be <b>110 USD</b> .

### \*\*Discount offered:

- ✓ **For continuous learner:** If you have attended earlier one course of SQVe Consultants then **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. To avail the discount, please send us an email at : [steel@sqveconsultants.com](mailto:steel@sqveconsultants.com) . We will arrange to send an invoice considering the discount for online payment.
- ✓ **Group participation** from a company or institute is encouraged to get the discounts on this course. For more details, pl contact us at the above-mentioned email address.

## 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/steel-str-003>

### Important notes:

- ⇒ The above payment gateway will accept card only. If you prefer other type of payments such as net banking, UPI, Goggle Pay, etc. then please message us. We will arrange details for the same.
- ⇒ Payment gateway at the above-mentioned portal is configured only for **Indian participants**. Interested foreign engineers can contact us at the email address : **steel@sqveconsultants.com**. An invoice will be shared through **PayPal** for online payment.

**Kindly note that there are limited seats.**

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

## SCHEDULE OF THE COURSE : STEEL-STR-003

Session no.	Brief details	Date	Time (IST)
1	<b>Different grades of structural steel and weld metallurgy</b> – Pros & cons of different grades of structural steel, weldability for the different grades, etc.	12-Dec-22	8:15 PM TO 9:30 PM
2	<b>Welding for structural steel</b> – as per IS code vs international codes, general guidelines, good practices related to welding, etc., different types of welding for structural steel – Specifications to be mentioned in the drawings for the welding, Welding symbols and representation in the drawings, etc.	14-Dec-22	8:15 PM TO 9:30 PM
3	<b>Selection of welding electrode</b> – different types of electrodes, weldability, strength, etc.	16-Dec-22	8:15 PM TO 9:30 PM
4	<b>Structural design of welding as per IS code and other international codes</b> – calculation of strength of fillet weld, throat thickness, combined shear and tension, direction factor, etc.	19-Dec-22	8:15 PM TO 9:30 PM
5	<b>Procedure in welding, quality assurance related to welding, do's and don'ts, etc.</b> - Defects in welding, Different types of defects, preventive measures for each type of welding defects, etc.	21-Dec-22	8:15 PM TO 9:30 PM
6	<b>NDT tests for welding</b> – different tests, checking quality of weld at site, Pros and Cons of the different tests, etc.	23-Dec-22	8:15 PM TO 9:30 PM
7	<b>Open discussion-</b> to address the balance queries of the participants	27-Dec-22	8:15 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. **S**chedule adherence, **Q**uality assurance & **Ve** -Value Engineering.

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. We also provide mentoring to the structural engineers through one-on-one session. Please get in touch with us for any requirements related to online training related to civil/structural engineering as well as in the area of people management.

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

You may contact us at email address : [contact@sqveconsultants.com](mailto:contact@sqveconsultants.com)

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