REC-STR-004 : Recorded sessions of previous online courses for Steel Structures

SQVe Engineering

Link for accessing the sessions: **https://academy.sqveconsultants.com/rec-str-004**

Sessoin No	Course ID	Title
1	**STEEL-STR-004** Design of Steel Structures as per IS 800:2007 along with software STAAD Pro | RAM Connection	Introduction | Overview of IS 800:2007| NBC:2016
2		Material | Different types of analysis | Base stiffness
3		Buckling analysis | ETABS | STAAD
4		P DELTA Analysis in STAAD
5		P DELTA Analysis in ETABS | Plastic analysis | Section classification
6		Discussion on slender members | Design of tension members
7		Design of compression members | Effective length
8		Design of compression member | STAAD | ETABS
9		Design of members for pure bending | Lateral torsional buckling
10		Design of member for pure bending | STAAD | ETABS
11		Design of steel member for combined forces | STAAD | ETABS
12		Fundamentals of connection design
13		Welded connections as per IS code | Shear connections as per EURO code
14		Shear connections in RAM software | Euro code | IS code
15		Bracing connection | Moment connection | RAM connection software | Euro code | IS code
16		Design of moment connections | RAM connection |Discussion on section 10 of IS 800:2007
17		Earthquake resistant design | Section 12 of Is code| NBC 2016
18		Earthquake resistant design | Section 12 of IS 800:2007 | NBC 2016 - Part 2
19		Earthquake resistant design | STAAD.Pro (Part 3)
20		Design parameters in STAAD Pro | IS 800:2007 vs MBMA
21		Design parameters in ETABS | Case study of analytical model in STAAD | Application of seismic force for industrial structure
22		Case study | Model in STAAD Pro (Part 2)
23	**STEEL-STR-005** Design of steel structures as per AISC 360-22 | AISC 341-16 | AISC 358-16 along with software STAAD Pro & RAM connection	Overview of AISC 360-22 & Design requirements
24		Cross section | Material | Structural system | Buckling
25		Buckling analysis | Design for stability
26		Design for stability
27		Verification examples for stability analysis | Different types of analysis
28		Design of Tension members
29		Direct analysis method in STAAD
30		Design of Compression members
31		Design of members for flexure
32		Design of members for flexure (Part 2)
33		Design parameters in STAAD | Design of members for bending in STAAD
34		Design of members for combined forces | Learning from failure of structures
35		Design of connections for steel structure

Email address: steel@sqveconsultants.com
WhatsApp : +91 9909977325

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Sessoin No	Course ID	Title
36		Design of connections for steel structure (Part 2)
37		Design of connections for steel structures (Part 3)
38		Design of connections for steel structures (Part 4)
39		Seismic design requirements as per AISC 341-16
40		Seismic design requirements as per AISC 358-16
41		Overview of Seismic load & Wind load generation in STAAD Pro
42	**STEEL-STR-006** Connection design for steel strutures as per Eurocode-3 | AISC 360-22 | IS 800:2007 along with RAM connection	Structural behaviour and connections | Introduction
43		Overview of design of connections as per Eurocode -3
44		Overview of Eurocode-3 | Bolt and Weld capacity
45		Eurocode-3 | Classification & Modelling | Component design | Shear connections
46		Design of shear connections | SCI P358 | RAM connection
47		Design of shear connections | Fin plate connection | SCI P358 | RAM connection
48		Design of splice connection | Bracing connection | SCI P358 | RAM connection | Moment connection
49		Design of moment connections | SCI P398 | RAM connection
50		Design of moment connections | SCI P398 | RAM Connection | Overview of connection design as per AISC 360-22
51		Overview of connection design as per AISC 360-22 | Worked out examples| RAM Connection
52		Design of connections in RAM Connection as per AISC 360-22
53		Design of joints for tubular sections | Eurocode-3 | AISC 360-22 | RAM connection
54		Prequalified connections as per AISC 358-16 | RAM connection
55		Overview of connection design as per IS 800:2007
56		Design of connections for earthquake resistant design | IS 800:2007 | RAM connections
57		Discussion related to queries | Way-forward