



**American Welding Society®**  
INTERNATIONAL AGENT



## Insight Quality Services

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## AWS - CWI & CWEng Seminar & Exam Schedule for Year 2020



**"It is good to have Education, it is better to have Experience,  
but it is essential to have TRAINING!"**

## **About us**

Insight Quality Services is a premier institute in the field of Training, Consultancy, Inspection & NDT services.

Established in 1994, IQS is an internationally reputed organization that strives to provide services that exceed the customers' expectations. A wide experience of many years, hands-on working style and a series of added qualifications have been the focus of our team members in training. We are happy to announce that we have just completed 25 years of successful operation.

### **We take pleasure in communicating that we are now an International Agent of AWS!**

Our 25 years of experience in Training was the key factor in getting us this agency. We were already conducting training programs on welding, our own qualification. We were geared up with trainers, samples, instruments and methodology with this previous welding training experience. Becoming an AWS agent has given us a further boost in serving the industry. We are further equipped, since last year, with the help of AWS with all the essentials required for the training and examination. Needless to say, as we have been doing for all our training courses, we will go one step beyond your expectations in your learning experience!

Welding Consultancy and Inspection are two other streams of our organization which keep our faculty in touch with the field and the latest codes, standards and hands-on practices. This enables us to present the latest field experience and case studies for the benefit of the students.

## **AWS Certified Welding Inspector Program**

Welding is the most important joining process. The integrity of any product depends on the weld quality. Welding inspection is of utmost importance, and a certified welding inspector is the right person to carry out this inspection. Being rightly methodic, the AWS welding inspector program contributes largely in making you a knowledgeable and expert welding inspector. The industry is looking for not just certification, but expertise in your work. This program hones your skills to a degree required by the demanding market, and opens up new avenues for you.

The course is designed to cover all the requirements for becoming a knowledgeable and competent welding inspector.

**Course objectives** - AWS (American Welding Society), the leading authority in the field of welding inspection, has demonstrated their commitment to bring industry the best and most reliable educational certification programs tailored specifically for various circumstances and needs for the job. The scheme focusses on making the candidate gain knowledge on topics of Welding Metallurgy, Welding Symbols & Geometry, Welding Imperfections, Welding & Cutting Processes, Visual Inspection and application of various codes. The course focusses on making the candidate a knowledgeable and expert welding inspector.

### **Who should attend –**

Welding Foremen	Site Inspectors
QA/QC Inspectors	Site Incharge
Engineers and Supervisors	Erection Engineers
Production Engineers	NDT Professionals
Experienced Welders	Construction Engineers

**Takeaway – Full training material as per the requirement of the course.**

## Exam Pattern for AWS / CWI\*

Examination	Number of Question	Duration	Min % to pass	Pattern
Part A - Fundamentals	150	2 Hrs	72%	Closed Book Online Prometric Exam
Part B – Practical	40	2 Hrs	72%	Closed Book Paper Exam at IQS
Part C – Code Book	46	2 Hrs	72%	Open Book Online Prometric Exam**

\* - As per QC1:2016. Actual pattern may differ.

\*\* - At the time of open book Exam, the options are to use the digital copy on the Prometric computer, or to bring a hard copy of the code to the Prometric Test Center.

## Eligibility:

MINIMUM EDUCATION	MINIMUM WORK EXPERIENCE
Bachelor or higher degree in welding engineering welding technology - 4 years maximum substitution	Minimum of 1 year welding based work experience
Associate or higher degree in welding or non-welding related engineering technology, engineering, or a physical science - 3 years maximum substitution	Minimum of 2 years welding based work experience
Engineering/Technical courses that can be applied to Bachelor or higher degree in Welding - 2 years maximum substitution	Minimum of 3 years welding based work experience
Trade/Vocational courses - 1 year maximum substitution for successfully completed courses	Minimum of 4 years welding based work experience
High school diploma or approved high school equivalency diploma	Minimum of 5 years welding based work experience
8th grade level of schooling	Minimum of 9 years welding based work experience
Less than 8th grade	Minimum of 12 years welding based work experience

## Seminar Pattern:

The seminar will be of 8 days.

**Part A :** Fundamentals will be covered in 3.5 days.

Here, we will be covering AWS QC1:2016, Duties and Responsibilities, Safety, Metallurgy (Carbon and low-alloy steel), Welding & cutting Processes, Brazing, Soldering, Symbols – Welding and NDE, Documentation, Matric practices, Welding Inspection, Welding Discontinuities, Heat Control & Weld Examination, Visual inspection and other NDE methods, Welding procedure & Performance.

**Part B:** Practical applications will be covered in 2.5 days. We will cover Workmanship Requirements and Visual Inspection Acceptance Criteria – Structural Steel, Pipeline, Pressure Piping, Procedure Qualification Requirements, Performance Qualification Requirements. You will be handling, under expert guidance, tools, gauges and instruments from the kits approved by AWS. The specimens / samples / replicas will be those purchased from AWS. You will be learning the inspection methodology and application of the acceptance / rejection criteria on these specimens / samples / replicas.

**Part C:** The next 2 days will be invested in learning the required codes. This is Part C of the examination. Generally, we cover API 1104 code for Part C (other codes will be covered as per the candidate's requirement). In API 1104, we will be covering PQR, Materials and Design, Fabrication, Inspection and Qualification. The other codes that will be covered based on requirement, are AWS D1.1 Structural Steel, AWS D1.2 Structural Aluminium, AWS D1.5 Bridge Welding, AWS D15.1 Railroad, AWS D17.1 Aerospace, ASME Pressure Vessel Section VIII, Div. 1 and Section IX, ASME Pressure Piping B31.1 and B31.3, and Pressure Vessel Section IX, AWS Structural Bolting Inspection.

## **Certified Welding Engineer (CWEng)**

Any pressure vessel, piping, tank or structural item is designed on the basis of base metal properties (design standards). During fabricating, welding is used for joining, and the obvious requirement of the designer is “My weld shall be as sound as the base metal”. The soundness of the weld is verified by strength and ductility tests. Who will ensure this soundness? The answer is - “Welding Engineer”!

The Welding Engineer gives the Designer the confidence that welding properties are adequate and meet the requirements of the standard. AWS Certified Welding Engineer is a unique qualification offered by AWS for the benefit of industries. The Qualification consists of four parts of Examinations. It covers Basic science and Fundamentals, and Applied Science and Fundamentals in the first two parts. After passing the first two parts, the candidates can take up Part 3- Welding related disciplines (Essay Exam) and Part 4 – Practical Welding related applications.

In India, many good fabrication setups do have Welding engineers, however their credentials are not independently verified. The customer’s confidence always depends on independent certifications of the key personnel. Here, ‘AWS Certified Welding Engineer’ is the right solution.

IQS has designed a detailed training program for this unique Welding Engineers Certification by AWS, and we are sure that the Indian Fabrication Industry will definitely get benefited by this new AWS – CWEng program.

**Course objectives** - AWS (American Welding Society), the leading authority in the field of welding engineering, has demonstrated their commitment to bring industry the best and most reliable educational certification programs tailored specifically for various circumstances and needs for the job. The scheme focusses on making the candidate gain knowledge on topics of Mathematics, Physics, Chemistry, Strength of Materials, Heat Transfer and fluid mechanics, Electricity, Welding processes, Heat Sources, Weld discontinuities, Welding Metallurgy, Weld Design, and Safety. The course focusses on making the candidate a knowledgeable and expert welding engineer to ensure the soundness of the weld as per designer requirements.

### **Who should attend –**

Welding Foremen	NDT Engineers
QA/QC Engineers	Construction Engineers
Welding Supervisors	Erection Engineers
Production Engineers	NDT Professionals
Welding Engineers	Third party Inspectors

**Takeaway** – Full training material as per the requirement of the course.

## **Exam Pattern for CWEng**

Examination	Minimum No of Questions	Minimum percentage
<b>Part 1</b>	35	60%
<b>Part 2</b>	25	60%
<b>Part 3</b>	45	60%
<b>Part 4</b>	39	60%
<b>Minimum weighted percentage for all 4 parts: 70%</b>		

### Eligibility:

In order to qualify for a Certified Welding Engineer the candidate must be an individual

- ❖ Having Bachelor of Engineering (B.E) degree and a minimum of one (1) year related experience.
- ❖ Having Bachelor of Technology (B.Tech.) degree and a minimum of two (2) years related experience.
- ❖ Having other related Bachelor of Science (B.Sc.) degrees and a minimum of five (5) years of related experience.
- ❖ Having an Associate in Applied Science (A.A.Sc) degree and a minimum of ten (10) years of related experience.
- ❖ Who has successfully completed high school or an equivalent program and a minimum of fifteen (15) years related experience.

### Seminar Pattern:

The seminar for CWEng will be conducted in two phases, each of 6 days. Phase I will cover Part 1, Basic Science and Fundamentals and Part 2, is it Applied Science and Fundamentals.

After the candidate passes Part 1 and Part 2, he/she can attend Phase II program which will cover Part 3, Welding Related Disciplines (Essay exam) and Part 4, Practical Welding Related Applications.

The program will be conducted by welding experts having years of hands-on welding experience and will include case studies and a lot of practice questions for gaining confidence. At the end, a mock-up exam will be conducted to give the participants a feel of the AWS examination!

### CWEng Seminar & Exam Schedule for Year 2020

May 2020			
May 2020	Part 1 – Basic Science	13th to 19th PART 1 & PART 2 (Sunday Holiday)	Pune
	Part 2 – Applied Science	20th May 2020	

Sept 2020			
Sept 2020	Part 3 - Welding Related Disciplines (Essay Exam)	09th to 15th PART 3 & PART 4 (Sunday Holiday)	Pune
	Part 4 – Practical Welding and Related Applications	16th Sept 2020	

**GST as on date is mentioned here. However, GST as on the date of transaction will be applicable.**



## **AWS - CWI Seminar & Exam Schedule for Year 2020**

### **May 2020**

<b>May 2020</b>	CWI Seminar	11th to 19th May 2020 (Sunday Holiday)	Pune
	CWI Part (B) Practical Exam	20th May 2020	

### **July 2020**

<b>July 2020</b>	CWI Seminar	1st to 8th July 2020	Mumbai
	CWI Part (B) Practical Exam	9th July 2020	

<b>July 2020</b>	CWI Seminar	13th to 21st July 2020 (Sunday Holiday)	Pune
	AWS CWI Part (B) Practical Exam	22nd July 2020	

### **Aug 2020**

<b>Aug 2020</b>	CWI Seminar	24th to 31st Aug 2020	Vadodara, Gujarat
	AWS CWI Part (B) Practical Exam	1st Sept 2020	

### **Sept 2020**

<b>Sept 2020</b>	CWI Seminar	7th to 15th Sept 2020 (Sunday Holiday)	Pune
	AWS CWI Part (B) Practical Exam	16th Sept 2020	

## December 2020

December 2020	CWI Seminar	21st to 29th Dec 2020 (Sunday Holiday)	Pune
	AWS CWI Part (B) Practical Exam	30th Dec 2020	

**GST as on date is mentioned here. However, GST as on the date of transaction will be applicable.**

***Early Bird Discount!! - 20% discount on seminar fees on registration & full payment of fees before 7 weeks of the exam date!***

### Registration Process

All the registrations have to be completed five (5) weeks prior to the commencement of seminar with full payment. For more information, call us on 9689928561 / 9881244118

E-mail: [support@iqs-ndt.org](mailto:support@iqs-ndt.org)

Visit our website [www.iqs-ndt.org](http://www.iqs-ndt.org) for more details.

### Mode of payment

The Seminar fees & AWS Exam Fees payment must be made in Indian Rupees in the bank account given below. Send us the duly filled Course Enrollment form along with the course fee to be received in favour of M/s. Insight Quality Services, Payable at Pune, India.

We are accepting the course fees in the following modes:

- By Cheque / DD Payable at Pune in favour of Insight Quality Services
- By Credit card / Wire Transfer (NEFT / Swift) in to our bank account. Please include Bank Charges along with your payment.

Bank Name : ICICI Bank Limited  
Branch Name & Address : Bhandarkar Road, CTS 809/147,  
Bhandarkar Institute Road, Pune -411 005, India  
Account Number : 624005012759  
Account Name : Insight Quality Services  
IFSC Code of bank branch : ICIC0006240  
Swift Code of bank branch : ICICINBBCTS

### Note: -

- ❖ Pricing can change without notice. You are requested to verify pricing before making registration.
- ❖ Above fees are all inclusive of course material, stationery, lunch, tea, snacks, etc.
- ❖ Accommodation will be in your scope. We can guide you as per your requirement.
- ❖ If you are applying through your employer, it is advisable to ask for formal quotation before registration.
- ❖ All payments are non-refundable.
- ❖ We have to Process AWS Application and AWS Exam DD (Demand Draft) at the same time.

## **Our Team of Faculties:**



**Mr. Diwakar D. Joshi**

- BE (Mechanical)
- More than 45 years of experience in Engineering Industry
- ASNT Level III (RT,PT,UT,MT,ET,LT,VT) – Certificate No. 60893,
- RWTUV Certified Level III (RT,PT,UT,MT),
- ACCP Level III (RT,UT,PT,MT,VT),
- Senior Certified Welding Inspector (AWS),
- ISO 9000 Lead Assessor,
- API 510 Pressure Vessel Inspector,
- API 653 Aboveground storage Tank Inspector,
- API 570 Authorized Piping Inspector
- API 571, API 580 and API 577 Authorized Inspector
- API 936 Refractory Practitioner
- API TES Tank Entry Supervisor
- API Source Inspector Fixed Equipment (SIFE)



**Mr. Amit V. Deshpande**

- Diploma (Metallurgy)
- IWT Diploma (IIW)
- More than 24 years of experience in Engineering Industry
- SCWI (AWS) Certificate No. 05061481
- ASNT (UT, MT, RT, VT, PT) Level III Certificate No. 149610
- API 510 Pressure Vessel Inspector
- API 570 Piping Inspector
- API 653 Aboveground Storage Tank Inspector
- API Source Inspector Fixed Equipment (SIFE)
- (MT, UT, RT, PT) Level 2 as Per EN 473



**Mr. Prakash D. Tamhankar**

- Diploma (Mechanical / Electrical)
- More than 48 years of experience in Engineering Industry
- API 510 Authorized Inspector
- ASNT Level III (MT, PT, RT, UT) – Certificate No. 181744





**Mr. Aditya Bhagwat**

- BE (Mechanical)
- More than 7 years of experience in Engineering Industry
- API 510 Pressure Vessel Inspector
- ASNT Level III (MT, PT, RT, UT, VT) Certificate No. 222033
- CWI (AWS) Certificate No. 15022571
- CSWIP 3.1 Certified welding Inspector



**Mrs. Mugdha Joshi – Kale**

- B. E (E. & T.C)
- CWI (AWS) Certificate No. 19092761
- More than 8 years of experience in Engineering Industry
- ASNT Level III (PT+MT+RT+UT+VT+LT+ET) Certificate No.216658



**Mr. Vaibhav Gogawale**

- BE Mechanical
- More than 8 years of experience in Engineering Industry
- CAWI (AWS)
- CSWIP 3.1 Certified Welding Inspector
- ISO 9001: 2015 Lead Auditor
- ISO 14001: 2015 Lead Auditor
- ISO 45001:2018 Lead Auditors
- NDE Level II (PT, VT, MT, RT)
- EN ISO 9712 VT Level 2

**Insight Quality Services has extended its activities in the Middle East (U.A.E.) with the name Insight Global FZE.**