



WELDER SKILL DEVELOPMENT CERTIFICATION SCHEME

1. Certification Scheme

Sl. No	Certification Code	Description of Certification Scheme as per International Standard	Competence Requirements	Prerequisites
1	AIWTPL-SMAW PLATE	Certification in Shielded Metal Arc Welding on carbon steel Plate	Min 6 months field experience in the process, Should know about using SMAW machines, its accessories, welding consumables - its size & selection for variable thicknesses, electrode backing where required, knowledge on materials, welding positions, defects & trouble shooting.	Should know to read, write and understand vernacular and / or English language. The physical & vision must meet the required international standard requirement. Age: Min. 18 Years Should have completed basic training in the welding process at any institute (or) experience in the welding process from any industry.
2	AIWTPL-SMAW PIPE	Certification in Shielded Metal Arc Welding on carbon steel Pipe	Min 6 months' field experience in the process. Should know about using SMAW machines, its accessories, welding consumables - its size & selection for variable thicknesses, electrode backing where required, Knowledge on pipe materials, pipe welding positions, defects & trouble shooting.	
3	AIWTPL-GTAW PLATE	Certification in Gas Tungsten Arc Welding (TIG) on carbon steel Plate	Min 6 months field experience in the process, Should know about using TIG welding machines, its accessories, Tungsten electrodes – its sizes, welding consumables - its size & selection for thicknesses, knowledge on materials, welding positions, defects & trouble shooting.	
4	AIWTPL-GTAW PIPE	Certification in Gas Tungsten Arc Welding (TIG) on carbon steel Pipe	Min 6 months field experience in the process, Should know about using TIG welding machines, its accessories, Tungsten electrodes – its sizes, welding consumables - its size & selection for thicknesses, knowledge on pipe materials, pipe welding positions, defects & trouble shooting.	

Sl. No	Certification Code	Description of Certification Scheme as per International Standard	Competence Requirements	Prerequisites
5	AIWTPL-GMAW PLATE	Certification in Gas Shielded Metal Arc Welding (MAG) on carbon steel plate	Min 6 months field experience in the process, Should know about using GMAW welding machine, its accessories, filler wires – its sizes, shielding gasses & selection for base metals, welding positions, defects & trouble shooting.	Should know to read, write and understand vernacular and / or English language. The physical & vision must meet the standard requirement. Age: Min. 18 Years Should have completed basic training in the welding process at any institute (or) experience in the welding process from any industry.
6	AIWTPL-FCAW PLATE	Certification in Flux Cored Arc Welding on carbon steel Plate	Min 6 months field experience in the process, Should know about using the welding machine, its accessories, FCAW wires – its sizes, shielding gasses & its selection for various base metals, welding positions, defects & trouble shooting.	
7	AIWTPL- SS & AL PLATE	Certification in TIG or MIG processes on Stainless Steel & Aluminium Plates	Min 6 months field experience in the process, Should know about using the TIG & MIG welding machines, its accessories, TIG & MIG welding consumables - its size & selection for various thicknesses, knowledge on SS & AL materials and its welding procedures, welding positions, defects & trouble shooting.	
8	OFW & Brazing	Gas Welding, Brazing & Braze Welding	Should have adequate experience in OFW & Brazing, Must know the type of Fuel gas, connecting tubes and its colour coding, the accessories, gas mixtures ratios, flame setting, filler rods nomenclature.	
9	AIWTPL – RSW / RSEW	Resistance Spot Welding / Resistance Seam Welding	Should have min 6 months' experience operating RSW / RSEW machines. Should know about the Procedure used, Parameters, machine setting and operation.	
10	AIWTPL - RPW	Resistance projection Welding	Should have min 6 months' experience operating RPW machine. Should know about the Procedure used, Parameters, Machine setting and operation	

Certification will be provided as per the international standards like, ASME Section IX, AWS, ISO 9606, ISO 14732 & ISO 13585



2. Job & Task Description

Become SMAW or GMAW or TIG welder or Resistance welding operator in Structural, Boiler, Small, medium and Heavy Fabrication, Oil Piping (refinery), Chemical, Marine etc.

- 1) Able to join metals using any welding process
- 2) Connection of welding machines with power and welding cables
- 3) Identification and use of proper welding electrode or filler material
- 4) Operation safety when working in any welding process
- 5) Comply with industrial standard and requirements in welding
- 6) Able to work in any situation globally as a welder
- 7) Able to do welding as per any international standard

3. Abilities

The candidate should have the following abilities to attend the examination.

- 1) The candidate should be able to stand, stoop, bend, sit, and ability to lift normal loads,
- 2) Ability to work in overhead position,
- 3) Clear vision to identify the work under safety black glasses
- 4) Ability to identify the causes of electric shock.

4. Assessment / Examination

Each scheme shall have weightage of 80 marks in practical and 20 marks in Theory.

The candidate should score a minimum of 70% i.e., 56 marks in practical observation, 40% i.e., 8 marks in theory and no induced defect in the lab test reports and acceptance as per any international standard to obtain the certificate.

5. Renewal Period

The Renewal period for each certification is 2 years from the date of Certification as per international standard subject to track record maintained by welder should work in the same process and for same manufacturer for min 6 months and maintaining defects free welds through the period.

6. Re Certification criteria

The recertification shall be carried out as per recertification procedure (Pro. No: QSP 18) which mainly considers the following.

1. Take the exam one month before the validity of the certificate.
2. If the track record of the worker does not have work in the certified process continuously for more than 6 months.
3. Submit the proof of continuing the work satisfactorily and have work experience.
4. Prove physical capability in relation to the competence concerned.
5. Recertification examination will be done according to the Qualified WPS.



7. Suspension of certification.

The suspension of certification has been carried out as per suspending, withdrawing and reducing the scope of certification procedure (Pro. No: QSP-09) which considers the following:

1. Suspension involves, restriction to the certified personnel to use the certificate for the benefit of employment of person or other competence requirements if,
 - a. The candidate has persistently or seriously failed to meet certification norms.
 - b. The candidate is found to misuse the certificate or using any kind of misleading statement which might affect the reputation of the Institute.
2. A formal notice will be issued to the candidate with a request to give an explanation within 15 days. If he fails to provide the explanation within the stipulated period, the certificate will be withdrawn.
3. Upon suspension, AIWTPL website will be updated indication that said candidate's certificate is suspended.
4. During the suspension period the certificate shall remain invalid temporarily
5. During suspension period the person will not be allowed to use certificate for the benefit of an employment or other competence requirement

8. Withdrawal of the certificate

The withdrawal of certificate has been carried out as per suspending, withdrawing and reducing the scope of certification procedure (Pro. No.: QSP-09) which considers the following.

1. Withdrawal involves return of the certificate to the Institute during period of validity
2. Withdrawal of certification shall be initiated in the following situations,
 - a. The candidate does not meet the conditions of suspension
 - b. The candidate explanation is not accurate and misleading to the scope of certification even after remainders
3. After withdrawal of certification, AIWTPL website will be updated that the certification is withdrawn
4. After withdrawal, the person should not involve in any misuse of certificate for the benefit of his employment and competence requirements
5. After withdrawn the person should surrender the certificate to AIWTPL or Institute has closed down the records of the certificate

9. Changes in Certification scheme

Whenever there are changes in the certification scheme including specific methods and mechanisms required or standard, AIWTPL shall upload the same on the website and ensure that these changes are communicated to all existing certified persons through email. The implementation of changes will be made affective from the specified date and all relevant documents shall be modified. if changes require any recertification of certified candidates, a reasonable time limit will be specified and communicated to all certified persons.



10. Contact us

Interested organization / candidate can contact below address to get the quote / fees.

M/s. Alsta Institute of Welding Technology Private Limited

No. 20, Bharathi Nagar,

Gerugambakkam,

Chennai – 600128

Telephone : +91 44 49533741 / 49521267

Mobile : +91 9444521267

e-mail : admin@aiwtpl.in

aiwttraining@gmail.com

website : www.aiwtpl.in