

**ACCESS CONDITION for ADMISSION to IIW-India ANB - ATB**  
**For Theory and Practical lesson and Practical instruction and tests**  
**INTERNATIONAL WELDER (Guideline IAB 089r-5-14 or Latest)**

**Eligibility Criteria for Module-1 (Entry Level)**

- Must have completed Secondary Education from a State or Central Board, or equivalent with ability to comprehend written/oral instructions in English.
- Must possess appropriate health, physical and mental capability i.e. no physical or mental disability which may affect safety requirement at workplace.
- disability that precludes safe operation of welding equipment or interferes with full performance of duties in industry.
- Minimum age requirements prescribed in the State and Indian Central Labour Laws applicable in the state in which the ATB is located.
- Must have some background experience/knowledge in industry. Basic skill in metal working is required as a pre-qualification. Otherwise a prescribed 'Basic Training' to orient the candidate to industrial environment and in the knowledge related to metal working as well as to impart some essential related skills detailed in Appendix I.

**6.2 Eligibility Criteria for other Modules 2-6**

Successful completion of one module qualifies for entry & participation (Access) in the next module. With knowledge acquired and proven skill, the program may be entered at a higher level, provided that the candidate demonstrates a capability (practically and theoretically) to meet the entry requirements as described below.

**Entry to Module 2:** Demonstrate the required level of knowledge & skill by passing the tests as described in module 1. Will qualify as International Fillet Welder (IFW) on successful completion of Module 2.

**Entry to Module 3:** Demonstrate the required level of knowledge & skill by passing the full examination as described in module 2 above.

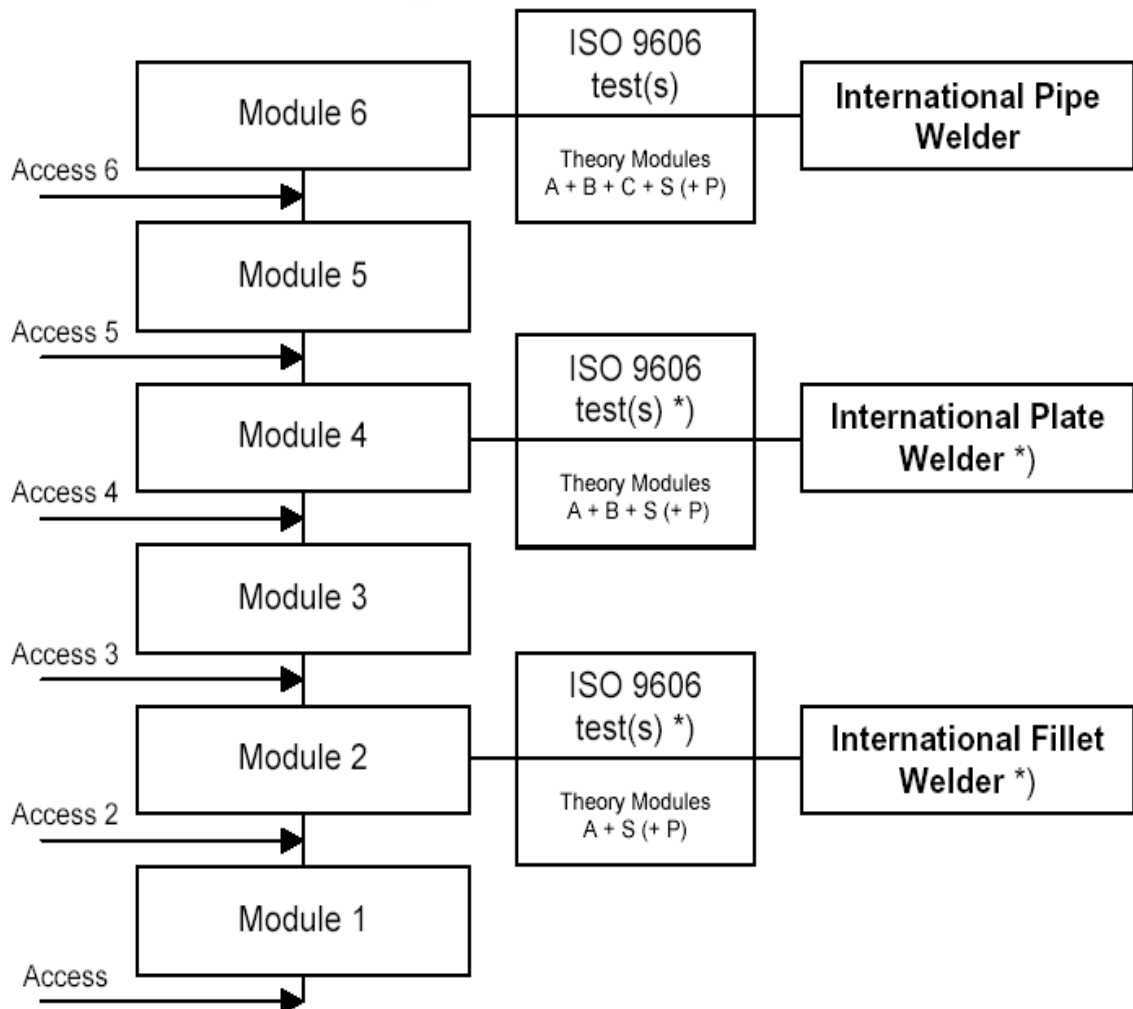
**Entry to Module 4:** Demonstrate the required level of knowledge & skill by passing the full examination as described in module 2 and passing the tests as described in module 3 above. Will qualify as International Plate Welder (IPW) on successful completion of Module 4

**Entry to Module 5:** Demonstrate the required level of knowledge & skill by passing the full examination as described in module 4 above.

**Entry to Module 6:** Demonstrate the required level of knowledge & skill by passing the full examination as described in module 5. Will qualify as International Tube Welder (ITW) on successful completion of Module 6.

The ATB may combine the award of diploma by combining two or more levels of qualification with the prior approval of ANB-India. A candidates may opt directly for International Plate Welder (IPW) Diploma considering the existing industry need.

Figure 1: The over-all structure of the training and examination of the international welder.



*\*) At the option of the ATB and in agreement with the ANB, it may not be necessary to issue intermediate certificates and diplomas.*

**INTERNATIONAL WELDER : Basic Training in Metal Working**

The basic course consists of Theoretical & Practical inputs to equip the candidates to fulfil the Access conditions at entry level in Module 1 i.e. enough knowledge or education and basic skill in metal working in order to follow the course.

Persons having prior experience in metal working may not need inputs in all the areas. Some part of the inputs may be made to coincide with the Module 1 with some extra time allotted. ATB may tailor the Lesson Plan to suit the profile of candidates or groups in prior consultation with the ANB-India.

- 1. Industrial Awareness:** Inputs to cover job function in industry, occupational description & condition. This may be supplemented by arranging visits to metal working industry, construction sites etc
- 2. General Safety Rules:** To ensure safety of the candidate as well as others and installations in an industry. Importance of using safety equipment & accessories and the penalty for failure to follow specified safety procedure according to Indian law is to be explained.
- 3. Hand Tools:** Uses in metal working including some practical training in metal working & shaping using chisel & hammer, file etc. Some exposure to basic sheet metal forming is desirable.
- 4. Power tools:** Use of common power tools like drilling, grinding, sanding, hack-sawing etc
- 5. Fitting & Assembling:** Exercise in simple assembly of common machine parts; weld specimens preparation etc by using assembly tools
- 6. Oxy Fuel Cutting & Heating:** To explain use of common Fuel gases like Acetylene, LPG, Propane etc and their identification & theory of cutting, terms & definitions. Exercise to include set up and manual Oxy-fuel gas cutting operations that include straight and shape cutting, bevelling and weld removal.
- 7. Do's & Don'ts in storing & handling gas cylinders and the required precautions for their use.**
- 8. First Aid:** Some very simple steps and actions to be taken in case of common hazards /accidents in metal working industry and specifically those involving welding like falling object, burn, arc-eye, electric shock etc.
- 9. Drawing:** Introduction to simple engineering sketches, weld joints, measurement systems etc.
- 10. Fire Fighting:** Preventive steps to avoid fire hazard during welding and especially to adjacent areas. Some demonstration in the use of Fire Fighting Equipment of different kinds in specific types of fires i.e. electrical short circuit, oil & combustible liquids, other solid combustibles etc.
- 11. Good Workplace Practice:** Performs general housekeeping duties to maintain workplace, equipment and tool cleanliness. Follows safe practices in the performance of daily duties.