



IIW- ANB India
Information Brochure for Institutions
Seeking Approval

APPROVED TRAINING BODY (ATB)

The Indian Institute of Welding (Ind.I.W) is a Premier National Professional Body for the development & advancement of Welding Technology and Science in the country and was established in April 1966 with its head Office in Kolkata. The Institute has members of different classes i.e. Corporate Members, Fellow, Member and Associate Member. The Institute publishes a quarterly technical journal which is well received within the technical community in India & abroad. The Institute conducts AMIIW examination based on its own course which is approved by Government of India, as equivalent to a Graduate Degree of a University. The institute also holds international & national conferences and world class exhibitions on welding products and services at regular intervals. The Institute has 11 branches throughout India. They are regularly conducting various activities including tailored programmes for promotion of knowledge, expertise & skill in welding and related activities.

The institute has adopted a Mission to promote Education and Qualification in welding in India in line with International Standards which will be globally recognised and accepted. The goal is to assist in making Indian industry locally and globally competitive in welding related activities

The Institute is a member of the **International Institute of Welding (IIW)** which was created in 1948 and now has 49 members. IIW has developed and now administer a Unified International System for Education, Examination and Qualification of Welding Personnel, which is globally recognised and internationally accepted.

A division of Indian Institute of Welding has been accredited by IIW as its only '**Authorised National Body**' (ANB) in India (To be referred as **ANB-India**) to operate its above international scheme and award **International Diplomas** to welding personnel at various levels from skilled **International Fillet Welder** to the highest level of **International Welding Engineer (IWE)**.

The Indian Institute of welding in turn appoints welder training institutes as **Approved Training Bodies (ATBs)** as per International Authorisation Board guideline No IAB-001r3-07 who will actually impart the approved practical and theoretical training programmes. Prospective candidates are required to undergo training in these ATB's in the course of their choice.

1. Benefits

1.1 Industry Advantage:

The IIW qualification system, administered by ANB India will provide a pool of welding personnel at all levels, trained to international standard for industry. This will also enable industry to fulfil the future requirements of ISO 3834 (Quality requirement for Welding) as well as ISO 14731 (Welding Co-ordination Task and Responsibilities), which will be particularly relevant for export-oriented industries.

1.2 Career for Welding Professionals:

Welding is a key technology and competency required for the fabrication and construction industries and requires qualified persons at various levels of skill and knowledge. The international Diplomas within the scope of ANB-India start from International Welder upto International Welding Engineer as outlined below and offer opportunity for upward career progression. There is enormous scope to obtain overseas appointment at all levels for IIW Diploma holders starting from the ground level welder to highest engineer.

- ❖ **(IFW, IPW or ITW):** International Welder for Fillet, Plate or Pipe/Tube: Skilled welder on job with approval qualification as per ISO 9606 / ASME IX or equivalent with openings worldwide.

- ❖ **(IWP): International Welding Practitioner** is an experienced highly skilled welder in at least one process with approval qualification as per ISO 9606. He is able to read technical drawings and is well informed about production methods concerning welded products, including some training on visual and liquid penetration examination. He can supervise & instruct industrial workers and assist the responsible Welding Co-ordinator. He is suitable to hold the position of supervisor in a manufacturing industry or as an Instructor for welders in a training institute.
- ❖ **(IWS): International Welding Specialist** is required to have much greater in depth knowledge on various aspects of welding covering processes, material, weld failures & inspection, joint design & fabrication of welded structures and quality control apart from necessary welding skill, suitable for job function as shop floor inspector, senior supervisor, instructor, and Welding Co-ordination in a shop with limited variation in parameters on process, material, joint design etc.
- ❖ **(IWT): International Welding Technologist** are expected to have greater in depth technical knowledge and expertise to undertake work of the responsibility of weld design, selection of process & procedure for fabrication with safety and can take responsibility as Welding Co-ordinator in a manufacturing industry.
- ❖ **(IWE): International Welding Engineer** is the most knowledgeable in the profession to guide and advise for resolution of technical issues relating to actual welding, process & procedure, inspection, design of welding and fabrication technique, quality control with inputs of "state of the art". He is able to take the position of Welding Co-ordinator with full responsibility in most industries with diverse requirements for welding and fabrication with assured safety..

1.3 Training & Educational Institutions - Opportunities :

By adopting the guidelines of International Institute of Welding through ANB-India, they will be able to harmonise the training, examination and qualification testing of welding professionals with the international welding professional's community. The guideline takes care of both theoretical education and practical training at different skill and knowledge levels. This will have immediate industry recognition and acceptance all over the world. The students are likely to be attracted to training institutes which provide quality training acceptable to overseas job market for employment.

2. Approved Training Bodies (ATB)

The ATB's are appointed through an extensive process of verification as shown in the flow chart in the next page. Following categories of organisations may be eligible for approval.

- ✚ A Welders training school or Institute
- ✚ An Engineering/Technical college running theoretical and practical classes in welding
- ✚ A welding products manufacturing company having its own welding school
- ✚ A fabrication organization having its own welding training and qualification cell

The welder training workshop has to include the required number of training booths. The booths are to be fully equipped for training with safety, have correct ventilation and correct screening to protect other workers. The range of welding and auxiliary equipment must be modern & reflect the range of welding processes and must be in sufficient quantity for imparting training and practice, providing plates, material and consumables etc. The ATB must have well ventilated modern class rooms with teaching aids, audio visual equipments, library & employing adequately qualified teachers and instructors with administrative support as per IAB norms.

All the facilities required must cover the maximum number & level of students being trained. The approval of an ATB and the courses they are authorised to conduct is the responsibility of ANB-India as per IAB guideline No IAB-001r3-07. A course is approved with respect to the programme, the team of lecturers, course materials, Lesson Plan, facilities and equipment on successful completion of Assessment Audit.

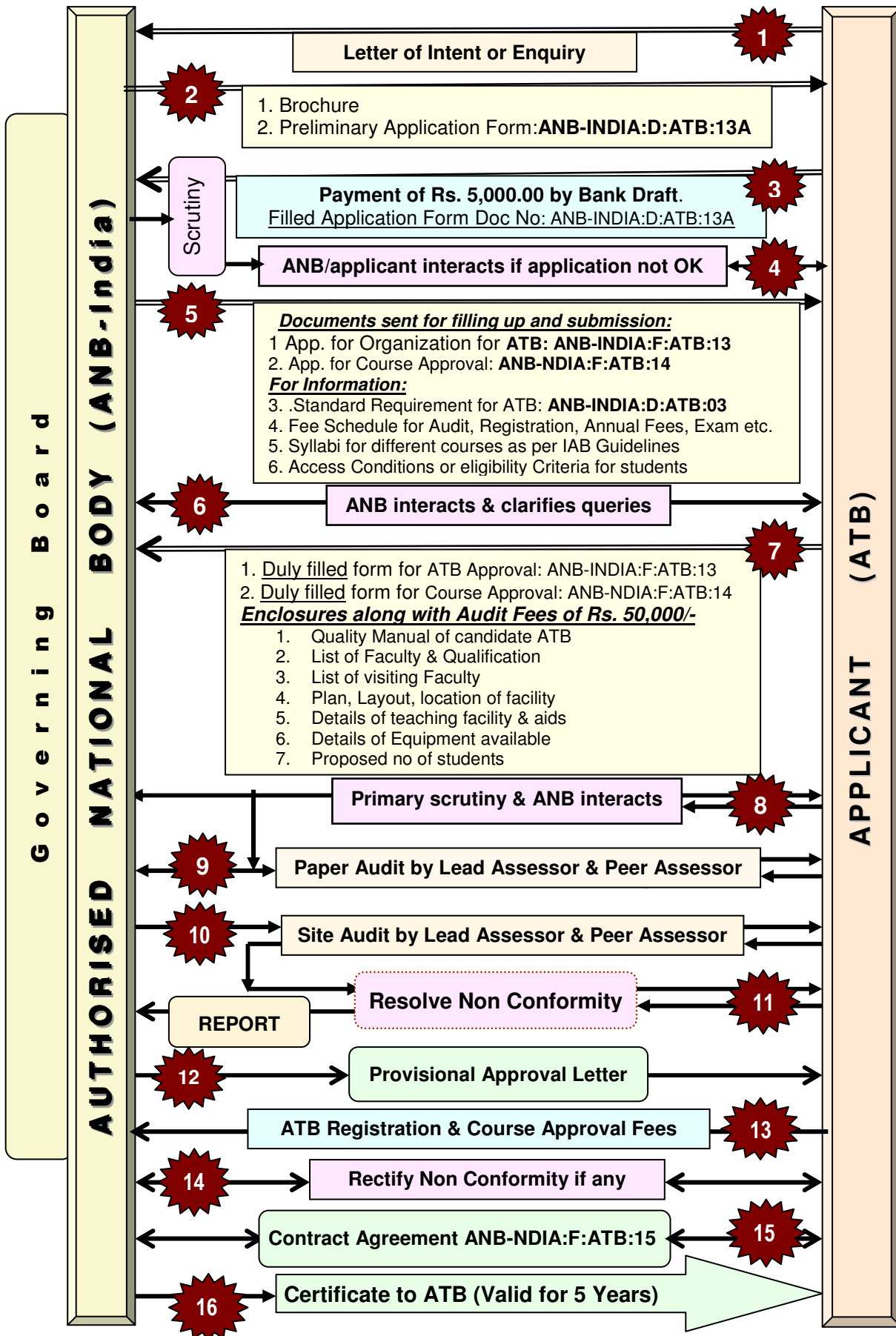
The ATB is to conduct approved courses designed to prepare candidates for examinations and qualifications of welding personnel to International Standard as per IAB guideline. Successful completion of an approved course with both theoretical and practical lessons is a requirement of the qualification procedure for awarding IIW Diploma.

The applicant ATB must have the legal right to use the facilities used for imparting the training courses offered and is fully responsible for compliance of concerned legal and statutory regulations.

The ATB's are subjected to monitoring, and review audit by ANB-India within every 18 months. The requirements are covered under IIW-IAB guideline No IAB-001r3-07 and in ANB-India Quality Manual Doc No OP- 4 (Approval, Surveillance, Renewal & termination of ATB)

3. Procedure / Steps for Obtaining Approval of ATB & the Courses

The following diagram shows the step by step process in the approval of an ATB by ANB-India under the relevant IAB guideline No IAB-001r3-07.



4. International Welding Professional (Eligibility/Access)

The ANB is responsible to ensure that the specified eligibility/Access condition is maintained for each course. The ATB is to ensure that proper verification of all qualification testimonials are made as a preliminary to forwarding the application to the ANB.

International Welder (Entry Level): Entry is for course on International Fillet Welder and then moving up to be International Plate Welder and subsequently to International Pipe/Tube Welder (*More details in brochure for International Welders*)

(IWP): International Welding Practitioner: Must have qualified as International Plate Welder or a Welder with equivalent skill to ISO 9606/ASME-IX standard after passing Secondary Examination or equivalent. He must not be less than 20 years in age with 3 years relevant experience. The ANB may require revalidation of welder approval qualification under ISO 9606.

(IWS)International Welding Specialist: Entry condition is technician Certificate with 2 yrs experience after passing Secondary Examination or who enter from the Practitioner or skilled worker route with demonstrated theoretical knowledge to pass ANB entry test covering syllabus IWS-0. Those lacking basic technical education are required to attend course IWS-0 before test as per guideline.

(IWT) International Welding Technologist: The requirement is a 3 years Diploma in Engineering or equivalent after Secondary Examination. Candidate must furnish proof of having requisite knowledge to get exemption in attending Part 1 and appear directly for Intermediate examination.

(IWE) International Welding Engineer: The candidate must have a recognised engineering degree or AMIIW, AMIE, AMIIMet or equivalent after class XII or equivalent with some research/workshop training/experience in welding fabrication process.

For persons with proof of related practical experience for specified period with proper educational qualification, there is a route to eligibility for obtaining International Diploma through **Transition Arrangement** at the discretion of ANB during a limited period of time window as per IAB guideline.

5. Examination:

The examination procedure will be as set forth in IAB-001-200/EFW-416 and guideline No IAB-001r3-07 and under ANB India QC manual Doc OP-3. The final examination to assess student performance, in accordance with the relevant IIW guideline and these rules is conducted by the Board of Examiners appointed by ANB-India. This examination is mandatory and is independent of any assessment procedure conducted by ATB

The examinations SHALL be conducted at locations and times designated in advance as per a schedule of examination. The written examination must be invigilated upon in appropriate manner. Certificate under applicable ISO-code or standard for qualification will be under the supervision of an ANB-India authorised Examiner. Testing laboratories if not within the ANB audited facilities must have prior approval of ANB by due process.

6. Diploma

The relevant International Welding Diplomas awarded are valid for life. However in case of welder certification the revalidation clause under appropriate IAB rule is applicable.



For Further details and clarification the prospective candidates may visit the IIW-ANB website <http://www.iwindia.com> or E-Mail to anb@iiwindia.com anbindia.iw@rediffmail.com or contact 'The Indian Institute of Welding-ANB' at the address mentioned below



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