

**THE INDIAN INSTITUTE OF WELDING**  
(A Member Society of the International Institute of Welding)



*Information Booklet*  
on

**NATIONAL SKILL COMPETITION FOR BEST OF THE BEST WELDERS - 2019**

*Sponsored by*  
**M/s voestalpine Bohler Welding India Pvt. Ltd.**



**Categories**

- |                                  |   |                                  |
|----------------------------------|---|----------------------------------|
| A. Best Structural Welder (SMAW) | - | 2F & 3G Positions (Carbon Steel) |
| B. Best Structural Welder (GMAW) | - | 2F & 3G Positions (Carbon Steel) |
| C. Best Pipe Welder (SMAW)       | - | 6G Position (Carbon Steel)       |
| D. Best Pipe Welder (GMAW)       | - | 6G Position (Carbon Steel)       |
| E. Best Pipe Welder (GTAW)       | - | 6G Position (Carbon Steel)       |
| F. Best Pipe Welder (OFW)        | - | 6G Position (Carbon Steel)       |

**The Indian Institute of Welding**  
**"IIW-INDIA HOUSE", Plot No. 38, Geetanjali Park**  
**200, Kalikapur Main Road, PO: Mukundapur**  
**Kolkata – 700 099, INDIA.**  
**Phone: +91 33 24160826 | Telefax: +91 33 2416 0826**  
**E-mail: [iiw@iiwindia.com](mailto:iiw@iiwindia.com) | Website: <http://www.iiwindia.com>**

## GENERAL INFORMATION

- The Indian Institute of Welding conducts the “**National Skill Competition for Best of the Best Welders**” every year.
- The preliminaries are conducted at local branches of IIW-INDIA. The winners from branch level competitions are eligible to take part in the final.
- The National Level Competition (Final) - for the Best of the Best Welders is held during the National Welding Seminar (NWS) / International Congress (or as decided by the institute) at different venues.
- This competition is FREE and open to all members of the institute as well as to the non-members. The desirous candidates are required to contact the respective branches.
- Only the best candidate at the branch level in each category shall be eligible for the National level competition.
- The candidates selected for the National Level Competition shall be provided with free Boarding and Lodging by the Organisers of the National Welding Seminar / International Congress.
- The Best of the Best Welders selected at Finals will be given the “IIW-India – voestalpine Bohler Best of the Best Welder Award”, inclusive of a Cash prize and a certificate for each Category.
- The past winners of the National Level Competitions are not eligible to take part in the same category.
- To spread the National Skill Competition all around, it is decided to include Industries also for the competition. The industries may conduct the competition by themselves and may send the nominations (winners only) directly for final; however, they have to intimate respective IIW-India branches or HO for the witness and assessment.
- **The Winners in Pipe Welder Category are eligible for taking part in the International Arc Cup Competition at China, subject to the discretion of IIW-India and in accordance with the situation.**
- Winners in Structural Welder Category and 2<sup>nd</sup> & 3<sup>rd</sup> position holders may apply to take part in the International Arc Cup Competition at China, subject to the discretion and Terms & Conditions stipulated by IIW-India.

## BEST OF THE BEST WELDER COMPETITION – 2019

### Eligibility for the Best of the Best Welders:

1. Must be able to read and write in English and / or in any Indian Language.
2. Must have minimum 2 years’ experience in practical welding.
3. Must have basic theoretical knowledge of welding.
4. Must have some knowledge of the Codes / Standards being followed in their work place.
5. Must be between 18 to 34 years old as on 31.12.2019 (16 to 34 years for Students).

### General Rules / Procedures

1. The competition should be started by August 2019 and to be held across all the branches of IIW- India and in different industries for Preliminary Round.
2. Branches to propose one person as the single point of contact for this competition.
3. This time the International Congress IC2020 is scheduled to be held in Mumbai; so the final competition is also planned to be conducted in Mumbai during **13<sup>th</sup> & 14<sup>th</sup> of December 2019**, at Don Bosco Maritime Academy.
4. The branch level competitions must be conducted within **15<sup>th</sup> of November 2019**, so that the names of selected personnel can be sent for the National Level competition by the **20<sup>th</sup> of November 2019** positively. Competitions at different industries must be completed by **31<sup>st</sup> of October 2019**.
5. Carrying out the competition through the Branch will be the complete responsibility of each Branch. Also, they will witness the competitions to be held in different industries in their jurisdiction.
6. Maximum two days staying is expected at the venue for the competition.
7. The results will be declared by **21<sup>st</sup> of December 2019**, and the prizes to be distributed during the International Congress IC2020 on **6<sup>th</sup> of February 2020**.
8. Competition will be for six categories, which are:
  - A. Best Structural Welder (SMAW) - 2F & 3G Positions together (Carbon Steel)
  - B. Best Structural Welder (GMAW) - 2F & 3G Positions together (Carbon Steel)
  - C. Best Pipe Welder (SMAW) - 6G Position (Carbon Steel)
  - D. Best Pipe Welder (GMAW) - 6G Position (Carbon Steel)
  - E. Best Pipe Welder (GTAW) - 6G Position (Carbon Steel)
  - F. Best Pipe Welder (OFW) - 6G Position (Carbon Steel)

**The Criteria**

1. Only one set of pre-prepared test coupon (four plates or two pipe pieces) shall be provided to each competitor.
2. The welded test coupon shall be assessed through Visual Examination and qualified coupons will then be sent for Radiographic Testing.
3. Total Marks: 100 (50 marks for Visual assessment of test coupons and 50 marks for Radiographic assessment).
4. In case there is a tie in marks, completion time will be the factor for winning the competition. i.e., Welder, who have completed in lesser time, will be declare as the winner.

**SPECIFICATION FOR TESTING****Material:**

Plate: ASTM A36 / IS 2062 or Equivalent

Pipe: ASTM A106 Gr. B / API 5L Gr. B or Equivalent

**Dimension:**

5. Plate: 250 mm X 100 mm X 8 mm thk. (2 pieces for Butt Weld) & 200 mm X 100 mm X 8 mm thk. (2 pieces for Fillet Weld) for categories A & B (SMAW & GMAW)
1. Pipe: NB 6" Sch. 40 (7.11 mm thk.) X 100 mm lg. (2 pieces) for categories C & D (SMAW & GMAW)
2. Pipe: NB 2" Sch. 40 (3.91 mm thk.) X 100 mm lg. (2 pieces) for category E & F (GTAW & OFW)

**Assembly and Tack Welding:**

1. Single V preparation with 55 ~ 65 degree with root gap and root face as per Welder's choice
2. Tack welding: Plate shall be tacked in both the ends at the edges  
6" Pipe shall be tacked in 3 positions with no more than 15 mm length each  
2" Pipe shall be tacked in 2 positions with no more than 10 mm length each

**Consumables:**

1. Categories A & C: E7018 dia 2.5 mm & 3.2 mm (AWS A5.1)
2. Categories B & D: ER70S-6 dia 1.2 mm (AWS A5.18)
3. Category E: ER70S-6 dia 2 mm & 2.4 mm (AWS A5.18)
4. Category F: R60 dia 2 mm & 2.4 mm (AWS A5.2)

**Cleaning:**

Grinding is not allowed on back of root and capping run. Hacksaw Blade and brush may be used for cleaning.

**Completion Time:**

1. Category A: 80 min
2. Category B: 70 min
3. Category C: 110 min
4. Category D: 90 min
5. Category E: 50 min
6. Category F: 50 min

**Assessment:**

1. Visual assessment for all coupons shall be done in accordance with ISO 5817.
2. Radiography assessment (only for the visually qualified test coupons) shall be done in accordance with ASME SEC. IX 191.1.2.
3. Final marks will be provided by adding both the marks of visual and radiographic assessments.

**Note:** 2 assessors each for visual and radiographic assessments will be deputed. Radiography Laboratory may also act as the Third Party Assessor for radiographic assessments.

**Certification:**

1. Certificate of Participation to be issued to each welder at branch level competition by the respective Branch. Certificates also to be issued to the Winner in each category by the Branch.
2. Certificate of Participation to be issued to each welder at Final Level by the Organising Committee of NWS or International Congress. Certificates also to be issued to the Winners in each category at Final by the IIW-India HO during the NWS or International Congress.

**PROFORMA FOR APPLICATION / NOMINATION FOR  
BEST OF THE BEST WELDERS' COMPETITION**

**Application for Best of the Best Welder Competition in Category .....**

**Forwarded by IIW-India Branch .....**

**PLEASE FILL ALL THE DETAILS IN CAPITAL LETTERS**

Photographs  
(1 photo to be  
affixed here  
and 2 photos to  
be stapled with  
the form)

1. Name :
2. Date of Birth :
3. Present Address :
  
4. Mobile no. :
5. E-mail id :
6. Photo id (type & no.) :
7. Name of Sponsoring Organization (if Applicable) :
  
8. Address of the Organization :  
(with Tel. No. & Email)

9. Educational Qualification of the Candidate (optional) :

S. No.	Qualification	Institute	Major Subjects

9. Professional Experience :
  
10. Specific achievements in the Welding Field (optional) :

**Declaration:** I hereby declare that, I will follow all the instructions given for the Best of the Best Welder Competition. I will take part in a fair and friendly manner and will accept the results declared, as final. I also declare that all the particulars stated above are true.

Signature of the applicant :

Date :

**Signature of the Nominating authority (if Sponsored) :**

Name:

Designation

**IIW-India Branch / Head Office Entries :**

Form Received From ..... on .....

For competition in Structural Welder (A / B) / Pipe Welder (C/D/E/F) category.

Signature of Receiving Authority of the Branch / Head Office :

Name :

Designation :