



*Information Booklet*

## **National Skill Competition for Best of the Best Welders - 2021**

*Organised by*

**THE INDIAN INSTITUTE OF WELDING**

(A Member Society of the International Institute of Welding)

*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)       |

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## 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 National 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 (Winners & Runner-up) selected at Finals will be given the “IIW-India – voestalpine Bohler Best of the Best Welder Award”, which includes 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.
- 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 are eligible for taking part in the International Competitions, subject to the discretion of IIW-India and in accordance with the situation, which will be intimated later.

## BEST OF THE BEST WELDER COMPETITION (2021)

### 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 workplace.
5. Must be between 18 to 34 years old as on 31.12.2021 (16 years and above for the students).

### General Rules / Procedures

1. The competition should be started by latest by October 2021, 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 year the National Welding Seminar (NWS) is scheduled to be held in Pune and the Final competition is also planned to be conducted **in Pune, in December 2021**, or as decided by the organisers.
4. The preliminary competitions must be completed within **25<sup>th</sup> of November 2021**, so that the name of the Winners can be sent for the National level competition by the **30<sup>th</sup> of November 2021** positively. No entries for National Finals will be entertained thereafter.
5. Carrying out the competition through the Branch will be the complete responsibility of Branch Management. Also, they will witness the competitions to be held in different industries in their jurisdiction.
6. Around two days staying is expected at the venue for the National Finals, which will be arranged by the organisers on requisition in advance.
7. The results of the Finals will be declared within one week after the National Finals, and the prizes will be distributed during the Inaugural Session of the National Welding Seminar, on **17<sup>th</sup> of February 2022, in Pune**.
8. Competition will be for five 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)

## RULES AND REGULATIONS

### 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.

### 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 (GTAW)

### 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: a) Fillet welding plates shall be tacked in both the edges and at the centre of back side (20 mm)  
b) Butt welding plates shall be tacked in both ends of the groove with 15 mm length each  
c) 6" Pipe shall be tacked in 3 positions with 15 mm length each (except in overhead position)  
d) 2" Pipe shall be tacked in 2 positions with 10 mm length each (except in overhead position)

### 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-2 dia 2 mm (AWS A5.18)

### Cleaning:

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

### Completion Time (including setup / tacking):

1. Category A: 80 min
2. Category B: 60 min
3. Category C: 110 min
4. Category D: 90 min
5. Category E: 45 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 of each category by the Branch.
2. Certificate of Participation to be issued to each Competitor at Finals by the Organising Committee of National Welding Seminar or International Congress. Certificates also to be issued to the Winner of each category at Final by the IIW-India HO during the award ceremony.

**PROFORMA FOR APPLICATION / NOMINATION FOR  
BEST OF THE BEST WELDERS' COMPETITION (2021)**

**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, 1 photo  
to be stapled with  
the form for Branch  
and 1 photo to be  
handed over during  
the National Final)

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 provided 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 office Entries:**

Form Received From ..... on .....  
For competition in Structural Welder (A / B) / Pipe Welder (C / D / E) category.

Signature of Receiving Authority of the Branch office:

Name:

Designation: