



Invitation Letter for 2025 Arc Cup International Welding Competition

2025 Belt & Road and BRICS Competition of Skills Development and Technology Innovation----Arc Cup International Welding Competition (Hereinafter referred to as 2025 Arc Cup International Welding Competition or Competition) will be held from September 5th-10th in Weifang City, Shandong Province, China, as an associate event of IIW Activities 2025. The Competition aims to establish an international professionals exchanging platform for skills development and technology innovation in welding, promote the welding skills development and technical exchanges, and speed up the cultivation of welding skills professionals so as to enhance welding technical skills level together. Hereby the related matters are as follows:

I. Competition Projects

1. The Ninth International Welding Technology Competition

(New Welding Technology, Welding Equipment, Welding Material, Welding Process and Their Application Competition.)

Time: September 5-10th, 2025

Venue: Remote Participation by ZOOM Meeting

2. The Twelfth International Welding Robots Competition

(Welding Robots Programming, Operation and Maintenance)



Time: September 5-10th, 2025

Venue: Weifang City, Shandong Province, China

3. The Thirteenth International Welding Skills Competition

- **Single Welding Method**

(1) Shielded Metal Arc Welding (111/SMAW)

(2) Gas Metal Arc Welding (135/GMAW)

(3) Gas Tungsten Arc Welding (141/GTAW)

(4) Oxygen Fuel Gas Welding (311/OFW)

- **Carbon Steel Structural Parts Welding**

(111SMAW/141GTAW/135GMAW/136FCAW)

- **Aluminum Alloy Welding**

- **Welding Competition for Non-regulated Projects**

(UT, Advanced welding equipment, Advanced welding technology performance, expert performance of special welding and cutting)

Time: September 5-10th, 2025

Venue: Weifang City, Shandong Province, China

4. The Fourth Virtual Simulation Welding Competition

Time: September 5-10th, 2025

Venue: Weifang City, Shandong Province, China

II. Competitor Requirement

1. The Ninth International Welding Technology Competition

Undergraduates, higher vocational and secondary vocational students (including postgraduates); teachers from colleges and universities, and



researchers from scientific research organizations; welding engineering technicians; welders and relevant management staff, etc.

2. The Twelfth International Welding Robots Competition

Competitors should be qualified welding robot operators.

3. The Thirteenth International Welding Skills Competition

Welders with age between 18-35 years old and Students over the age of 16.

4. The Fourth Virtual Simulation Welding Competition

There is no age limits for competitors. Students, teachers and employees of enterprises can participate in the Competition.

5. Participation Teams

- (1) International participating teams
- (2) Teams from Technical and Vocational Education and Training Institutions
- (3) China Enterprises and Organizations

III. Assessment Standards & Ranking Method

1. Assessment Standards

Judges from China and other countries shall make assessment together to guarantee the fairness and justice of the refereeing activities according to international recognized standards and rules.

(1) The Ninth International Welding Technology Competition

This competition requires competitors to submit competition documents for expert assessment and make defense via online. Competitors



should submit documents by one of the following ways:

Papers and presentation PPT related to New Welding Technique/New Equipment/New Material/New Technology;

Drawings + project photos + process description related to New Welding Technique/New Equipment/New Material/New Technology and presentation PPT.

(2) The Twelfth International Welding Robots Competition

This competition follows ISO9606 international standards and regulations.

(3) The Thirteenth International Welding Skills Competition

For this competition, Chinese and foreign judges shall make assessment together based on ISO9606 international standards and rules to guarantee the fairness and justice of the refereeing and assessment.

(4) The Fourth Virtual Simulation Welding Competition

The competition is conducted by Augmented reality (AR) simulator. The evaluation and acceptance shall refer to ISO6947, ISO15608, etc., and the score will be analyzed and generated by simulator.

Evaluation indicators include: correctly set welding parameters, adjust the air pressure of welding cylinders, adjust the current and voltage, adjust the best welding posture, control the stability of vertical angle and horizontal angle, moving speed and distance between welding gun and welding line. Ensure that the weld width, width difference, height, height difference, welding line's length, back penetration and plug hole welding scar diameter, diameter difference, height, back penetration and other



(2) For the Thirteenth International Welding Skills Competition, Twelfth International Welding Robots Competition and Fourth Virtual Simulation Welding Competition, there are totally nine individual competition projects according to different welding process. The First, Second and Third Prize will be awarded for each project, and there are first, second and third place for the First Prize. The First Prize winners will be awarded certificates and medals. The Second and Third Prize winners will be awarded certificates.

(3) The instructor/trainer of the first-prize teams will be awarded the Outstanding Instructor/Trainer Certificate, and the instructor/trainer of second and third prize teams will be awarded the Excellent Instructor/Trainer Certificate.

(4) All competitors have the equal chance to win the certificate of “Excellent Prize” of 2025 Arc Cup International Welding Competition.

3. Young Competitors Award

Young competitors under 25 (included) years old can be ranked in the Young Competitor Award.

4. Student Competitors Award

Student competitors of each school can be ranked in the Student Competitor Award.

V. Priority for International Participants

1. There are no any registration fees for international competitors who submit their application forms.



2. “National Winner” who won the First Place in their national welding competition in 2024 or 2025 will be given reimbursement for one round-trip flight ticket and be provided with free accommodation by the Organizing Committee during the competition. The number of the National Winner in the First Place who can enjoy this priority is no more than 1. (Note: The round-trip flight should be limited to the Economy-class seat based on the normal situation (The Organizing Committee will communicate in advance the maximum reimbursable price for Economy-class tickets.). In case of any special situation, please coordinate with Chinese organizer.)

3. Top three winners in their national welding competition will be provided with free accommodation by the Organizing Committee during the competition. The number of the competitors in a country who can enjoy the above two priorities is no more than 4.

4. One team leader in a country can enjoy the free accommodation during the competition.

VI. Organization Structure

Hosts:

Organizing Committee of Arc Cup International Welding Competition (OCARCIWC)

International Alliance of Skills Development (IASDBR)

Belt & Road and BRICS Training Center for Skills Development and Technology Innovation



Co-hosts:

International Institute of Welding (IIW)

Asian Welding Federation (AWF)

China Association of Inventions (CAI)

China Center for International People-to-People Exchange, Ministry of Education

Chinese Welding Society (CWS)

China Welding Association (CWA)

China Staff Welding Technology Association (CWWTA)

Organizers:

ARC Science & Technology INC.

Beijing ARC Xinxing Science & Technology Co., Ltd.

Shandong Himile Vocational School

Weifang Himile Science and Technology Secondary Professional School

Ironman Academy (Daqing Vocational College)

Co-organizers:

China Welding Association Surfacing & Additive Manufacturing Division

China Building Material Machinery Association Welding Technology Division

Supporting Organizations:

Zhongguancun Science City Management Committee



(Zhongguancun Science and Technology Park Haidian Management Committee)

VII. Application Method

1. Please fill in the attached electronic *2025 Arc Cup International Welding Competition Application Form* and email to the Secretariat by email **jiakexinxing@126.com** or **jiakebj@gmail.com**.

2. The application deadline is 30th July, 2025.

3. Please **do not forget** to provide electronic photos (one inch electronic photo) for all the competitors and the scanned passport homepages of all participants.

VIII. Draft Timeline and Concurrent Activities

1. Draft Timeline

Sep. 5th, Arrival at Weifang City and Pre-competition Warm-up

Sep. 6th, Opening Ceremony and Competition

Sep. 7th, to 9th, The Competition

Sep. 10th, Closing Ceremony and Return Journey

2. Concurrent Activity

The 17th Asian Welding Technology and Application Forum—
Additive Manufacturing and Intelligent Welding International Forum.



IX. Contact Information

Secretariat of OC ARCIWC:

Contact Person:

Emily Zhao (+86-18612249270) Luke Du (+86-15010650107)

Lisa Cui (+86-15910438067) Henry Bai (+86-13621030121)

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E-mail: jiakexinxing@126.com; jiakebj@gmail.com

Attachments

Application Form for 2025 Arc Cup International Welding Competition

**Organizing Committee of
Arc Cup International Welding Competition**

February, 2025



2025 Arc Cup International Welding Competition Application Form

Country: _____

Date: _____

Name		Gender		Photo
Passport No.		Date of Birth		
Mobile No.		E-mail		
Place in your National Welding Competition	<input type="checkbox"/> First place <input type="checkbox"/> Second place <input type="checkbox"/> Third place <input type="checkbox"/> Others		Accompanying Person	<input type="checkbox"/> Team Leader <input type="checkbox"/> Coach <input type="checkbox"/> Visitor
Employer's Name			Contact Person	
Coach's Name				
Accommodation requirements	<input type="checkbox"/> Single room <input type="checkbox"/> Standard room			
Address				
Welding Competition Project Applied	1. The 9th International Welding Technology Competition <input type="checkbox"/> New Welding Technology <input type="checkbox"/> Welding Equipment <input type="checkbox"/> Welding Material <input type="checkbox"/> Welding Process and Their Application Competition			
	2. The 12th International Welding Robots Competition <input type="checkbox"/> Welding Robots Programming, Operation and Maintenance			
	3. The 13th International Welding Skills Competition			
	<input type="checkbox"/> 111/SMAW	<input type="checkbox"/> 135/GMAW	<input type="checkbox"/> 141/GTAW	<input type="checkbox"/> 311/OFW



	<input type="checkbox"/> Aluminum Alloy Welding	
	<input type="checkbox"/> Carbon Steel Structural Parts Welding(111SMAW/141GTAW/ 135GMAW/136FCAW)	<input type="checkbox"/> Welding Competition for Non-regulated Projects
	<input type="checkbox"/> The 4th Virtual Simulation Welding Competition	

Remarks:

Please email the Copy of Passport's First Page and the Application Form to the Secretariat of Organizing Committee before 30th July by jiakexinxing@126.com& jiakebj@gmail.com. The detail information is described as the Application Method. (For the competitors who apply to enjoy the Priority, please provide the copy of your certificate in your Nationwide Welding Competition after emailing us the electronic copy firstly.)