



Invitation Letter for 2026 Arc Cup International Welding Competition

2026 Belt & Road and BRICS Competition of Skills Development and Technology Innovation -- Arc Cup International Welding Competition (Hereinafter referred to as 2026 Arc Cup Welding Competition) will be held in October in Nantong City, Jiangsu Province, China, as an associate event of IIW Activities 2026. 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 Tenth International Welding Technology Competition

(New Welding Technology, Welding Equipment, Welding Material, Welding Process and Its Application)

Individual Competition: Adopt a format combining expert review of submitted materials with remote defense. Participants must submit materials conforming to one of the following combinations:

- (1) Papers and presentation slides related to new welding technologies/equipment/materials/processes;
- (2) Drawings+ photographs+process descriptions + presentation slides related to new welding technologies/equipment/materials/processes.



Time: October 15th-20th, 2026

Venue: Remote Participation by ZOOM Meeting

2. The First International Welding Robots Digital Twin Technology Application Competition

Team Competition (2 Competitors): Consist solely of practical operation tasks. Participants will remotely complete competition tasks within a digital twin environment, including welding robot debugging, fault diagnosis, programming typical welding processes, and simulated welding.

Time: October 15th-20th, 2026

Venue: Remote Participation by ZOOM Meeting and Digital Platform

3. The Thirteenth International Welding Robots Competition

(Welding Robots Programming, Operation and Maintenance)

Team Competition (2 Competitors): Consist solely of practical operation tasks. Participants must collaborate to complete competition tasks including debugging welding robots, performing fault diagnosis, and executing welding operations.

Time: October 15th-20th, 2026

Venue: JiangSu Shipping College

(Nantong City, Jiangsu Province, China)

4. The Fourteenth 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

Team Competition: 2-3 Competitors. Each team will complete the



tasks of carbon steel structural parts in methods of (111 SMAW/135 GMAW/136 FCAW/141 GTAW)

- **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: October 15th-20th, 2026

Venue: JiangSu Shipping College

(Nantong City, Jiangsu Province, China)

5. The Fifth Virtual Simulation Welding Competition

Time: October 15th-20th, 2026

Venue: JiangSu Shipping College

(Nantong City, Jiangsu Province, China)

6. The Third Metal Additive Manufacturing Competition

Individual Competition: Consist solely of practical operation tasks. Participants must complete the following competition tasks: Based on the provided two-dimensional drawings or three-dimensional models of the test piece, use robot programming to complete the metal additive manufacturing of the test piece within the specified time limit.

Time: October 15th-20th, 2026

Venue: JiangSu Shipping College

(Nantong City, Jiangsu Province, China)

7. The First Brazing Welding Competition

Individual Competition: Consist solely of practical welding tasks. Participants must use brazing techniques to complete competition tasks involving tube-to-tube, tube-to-plate, or plate-to-plate welds between copper and copper, or copper and stainless steel whether same-material or



dissimilar-material joints.

Time: October 15th-20th, 2026

Venue: JiangSu Shipping College

(Nantong City, Jiangsu Province, China)

8. The First Laser Welding Competition

Individual Competition: Consist solely of hands-on welding tasks. Participants must complete welding assignments on carbon steel, stainless steel, or aluminum alloy whether same-material or dissimilar-material joints using handheld laser welding equipment.

Time: October 15th-20th, 2026

Venue: JiangSu Shipping College

(Nantong City, Jiangsu Province, China)

II. Competitor Requirement

1. The Tenth 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 First International Welding Robots Digital Twin Technology Application Competition

Competitors should be qualified robots digital twin technology.

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

3. The Thirteenth International Welding Robots Competition

Competitors should be qualified welding robot operators.

There is no age limit for competitors. Students, teachers and employees of



enterprises can participate in the competition.

4. The Fourteenth International Welding Skills Competition

Welders with age between 18-40 years old and Students over the age of 16.

5. The Fifth Virtual Simulation Welding Competition

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

6. The Third Metal Additive Manufacturing Competition

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

7. The First Brazing Welding Competition

Students Group: it is available to the students over the age of 16.

Staff Group: it is available to the enterprise employees and teaching staff with age between 18-40.

8. The First Laser Welding Competition

Students Group: it is available to the students over the age of 16.

Staff Group: it is available to the enterprise employees and teaching staff with age between 18-40.

9. Participation Teams

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

III. Assessment Standards & Ranking Method

1. Assessment Standards

Judges from China and other participating countries shall make assessment together to guarantee the fairness and justice of the refereeing activities



according to international recognized standards and rules.

(1) The Tenth 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 Thirteenth International Welding Robots Competition

This competition follows ISO9606 international standards and regulations.

(3) The Fourteenth 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 Fifth 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 indicators of butt welding meet



the requirements, and there will be no penetration defects.

2. Ranking Method

(1) **Group Award:** This award is granted to teams/delegations according to its total scores. The total scores of each team/delegation are calculated by adding up the scores of each team/delegation's 3 best individual competitors in single competition project. The team/delegation with less than 3 competitors cannot be ranked in Group Award.

(2) **Individual Award:** The best competitor in single competition project in each country (or delegation) can be ranked in Individual Award.

(3) **Student Competitors Award:** Student competitors of each school can be ranked in the Student Competitor Award.

IV. Recognition and Awards

1. Group Awards

Group Awards are granted to teams/delegations, which will be honored with Cups or Certificates in Gold, Silver or Bronze.

2. Individual Awards

(1) For the **Tenth International Welding Technology Competition**, there will set the First, the Second and the Third Prize, which will be awarded to individuals based on different groups, which may cover 60% of the competitors. And these winners will be awarded the honor certificates.

(2) For the **Fourteenth International Welding Skills Competition, Thirteenth International Welding Robots Competition, Fifth Virtual Simulation Welding Competition, Third Metal Additive Manufacturing Competition, First Brazing Welding Competition, First Laser Welding Competition**, there are totally twelve 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/coach of the first-prize teams will be awarded the Gold Coach Certificate, and the instructor/coach of the second and third prize teams will be awarded the Outstanding Coach Certificate.

(4) All competitors have the equal chance to win the certificate of “Excellent Welder Prize” for 2026 Arc Cup International Welding Competition.

3. 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 once in their national welding competition in 2025 or 2026 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 the maximum reimbursable price for economy-class tickets in advance. 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 each 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 competition.

VI. Organization Structure

Hosts:

China Chapter of BRICS Business Council

Organizing Committee of Arc Cup International Welding Competition (OC ARCIWC)

International Alliance of Skills Development for Belt & Road and BRICS (IASDBR)

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

Organizing Committee of Arc Cup International Welding Competition

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)

China Association of Petroleum Engineering Construction (CAPEC)

Organizers:

ARC Science & Technology INC.



Beijing ARC Xinxing Science & Technology Co., Ltd.

JiangSu Shipping College

Ironman Academy(Daqing Vocational College)

Co-organizers:

China Welding Association Additive Manufacturing & Surfacing Division

China Welding Association Vocational Education Working Committee

China Building Materials Machinery Association Welding Technology Division

Welding Technical Committee of China Association of Petroleum Engineering Construction (CAPEC)

Welding and Testing Professional Committee of IASDBR

Supporting Organizations:

Zhongguancun Science Park Management Committee

(Zhongguancun Science and Technology Park Haidian Management Committee)

VII. Application Method

1. Please fill in the attached electronic ***Application Form for 2026 Arc Cup International Welding Competition*** and email to the Secretariat by email ***jiakexinxing@126.com*** and ***arciwc@126.com***.

2. The application deadline is 30th August, 2026.

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. Concurrent Activities



Belt & Road and BRICS Auditorium of Skills Development and Technology Innovation -- 2026 International Seminar on Welding Technologies Development and Technical Skilled Talents Cultivation and 19th Asian Welding Technology and Its Application Forum

It is honored to invite the delegate and expert from the participating country to attend this seminar and make the keynote speech. We believe your expertise and valuable insights would greatly enrich our discussions on the development of Welding Technology development & its application, technical skilled personnel training.

IX. Join in the Welding and Testing Professional Committee of IASDBR

The Welding and Testing Professional Committee of International Alliance of Skills Development for Belt & Road and BRICS (IASDBR) was established in September. 2025, which has attracted more than 100 experts and scholars around the world, devoted to the skills development & research, technology innovation and application on the welding and non-destructive tests. We sincerely invite you and nominate your experts to join this Committee as an Expert Member, Their profound insight will be helpful to the development of this committee and influence on the welding field. Please fill in the Appendix 3 & 4.

X. Contact Information

Secretariat of OC ARCIWC:

Contact Person:

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

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



Sophie Gao (+18510331484)

Website: www.arciwc.com; www.inwsa.org

E-mail: jiakexinxing@126.com; arciwc@126.com

Attachments

1. Application Form for 2026 Arc Cup International Welding Competition
2. Application Form for International Alliance of Skills Development for Belt & Road and BRICS (IASDBR)
3. Application Form of Membership Units for the Welding and Testing Professional Committee of IASDBR
4. Application Form of Board Member for the Welding and Testing Professional Committee of IASDBR

**Organizing Committee of
Arc Cup International Welding Competition
January, 2026**



Appendix 1:

2026 Arc Cup International Welding Competition

Application Form

Country: _____

Date: _____

Name		Gender		Photo
Passport No.		Date of Birth		
Mobile		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"/> Competition 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 10th 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			
	<input type="checkbox"/> 2. The 1st International Digital Twin Technology Application for Welding Robots Competition			
	3. The 13th International Welding Robots Competition <input type="checkbox"/> Welding Robots Programming, Operation and Maintenance			
	4. The 14th 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/ 135GMAW/ 136FCAW/141GTAW)	<input type="checkbox"/> Welding Competition for Non-regulated Projects
	<input type="checkbox"/> 5. The 5th Virtual Simulation Welding Competition	
	<input type="checkbox"/> 6. The 3rd Metal Additive Manufacturing Competition	
	<input type="checkbox"/> 7. The 1st Brazing Welding Competition	
	<input type="checkbox"/> 8. The 1st Laser Welding Competition	

Remarks:

Please email the Copy of Passport's First Page and the Completed Application Form to the Secretariat of Organizing Committee before 30th August, 2026 by jiakexinxing@126.com & arciwc@126.com. The detail information is described as the Application Method. Each competitor is permitted to register for a maximum of two events.

(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.)



Appendix 2:

Application for International Alliance of Skills Development for Belt & Road and BRICS (IASDBR)

Full Name:	Full Name:
Legal Representative:	Phone:
Mobile:	Email:
Contact Person:	Title:
Mobile:	Email:
Authorized Representative:	Title:
Mobile:	Email:
Address:	
<p>Working Committees of IASDBR (Multiple Options Available)</p> <p><input type="checkbox"/> Additive Manufacturing Professional Committee</p> <p><input type="checkbox"/> Transport Working Committee</p> <p><input type="checkbox"/> Digital & Intelligent Finance and Economics Professional Committee</p> <p><input type="checkbox"/> Big Data and Artificial Intelligence Professional Committee</p> <p><input type="checkbox"/> Engineering Construction Technology Professional Committee</p> <p><input type="checkbox"/> BRICS Maker Alliance Working Committee</p> <p><input type="checkbox"/> Robotics Professional Committee</p> <p><input type="checkbox"/> Manufacturing and Engineering Technology Professional Committee</p> <p><input type="checkbox"/> Industrial Internet Professional Committee</p> <p><input type="checkbox"/> Virtual Reality Professional Committee</p> <p><input type="checkbox"/> Agriculture and Ecology Professional Committee</p> <p><input type="checkbox"/> Logistics Professional Committee</p> <p><input type="checkbox"/> Social Service Professional Committee</p> <p><input type="checkbox"/> Information and Communication Technology Professional Committee</p>	



<input type="checkbox"/> Unmanned Aerial Vehicle Professional Committee <input type="checkbox"/> Welding and Testing Professional Committee <input type="checkbox"/> Creative Arts, Design and Fashion Professional Committee <input type="checkbox"/> Medical and Health Professional Committee <input type="checkbox"/> Digital Intelligence Cultural Tourism Professional Committee	
Brief Introduction (Attachments are accepted): 	
Demands and Suggestions: 	
Signature (Stamp): <div style="text-align: center;">Year/ Month / Day</div>	Comments of IASDBR Secretariat: <div style="text-align: center;">Year/ Month / Day</div>



Appendix 3:

Application Form of Membership Units for the Welding and Testing Professional Committee of International Alliance of Skills Development for Belt & Road and BRICS (IASDBR)

Full Name of Organization(Chinese)		Full Name of Organization (English)	
Date of Application		Nature of Organization	
Applied Membership Type	<input type="checkbox"/> Chair Member Unit <input type="checkbox"/> Vice-Chair Member Unit <input type="checkbox"/> Standing Council Member Unit <input type="checkbox"/> Council Member Unit <input type="checkbox"/> Member Unit		
	Is the organization a member of the Alliance? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Mailing Address			
Person in Charge of Organization	Name		Office Telephone
	Position		Email
	Professional Title		Mobile Phone
Contact Person	Name		Email
	Position		Mobile Phone
Basic Information of Applying Organization			
Signature/Stamp from Applying Organization	Signature of Person in Charge: (Official Seal) Year Month Day		

Notes:

Please fill in this application form and send it to jiakexinxing@126.com & arciwc@126.com by September 30th, 2026



Appendix 4:

Application Form of Board Member for the Welding and Testing Professional Committee of International Alliance of Skills Development for Belt & Road and BRICS (IASDBR)

Last Name		Gender		Date of Birth		(Photo)
First Name		Educational Background				
Working Organization				Position		
Other Positions				Technical Title		
Email				Mobile		
Graduate Institutions				Profession		
Address						
Application Category of Member to be Applied (Single choice)	<input type="checkbox"/> Chairperson <input type="checkbox"/> Deputy General Director <input type="checkbox"/> Standing Director <input type="checkbox"/> Council Member <input type="checkbox"/> Member			Proficiency in Language	() English () Russian () Portuguese () Others 1. Excellent 2. Good 3. Basic	
Expert Committee Member Category (Multiple choices are available)	<input type="checkbox"/> Skills Expert <input type="checkbox"/> Technical Expert <input type="checkbox"/> National-level Master Artisans <input type="checkbox"/> Teaching Master <input type="checkbox"/> Scholar <input type="checkbox"/> Others					



Main Work Resume	
Professional Expertise	

Remarks::

1. Each organization can recommend and nominate 3-5 representative to the Welding and Test Professional Committee to take charge of the position of **(Chairperson, Deputy General Director, Standing Director, Council Member or Member)**
2. Please fill in this application form and send it to jjakexinxing@126.com & arciwc@126.com by September 30th, 2026.