



ARC2019 No. 2

# 2019(3rd) Belt & Road and BRICS Skills Development and Technology Innovation Competition

## Arc Cup International Welding Competition Notice

2019 (3rd) Belt & Road and BRICS Skills Development and Technology Innovation Competition — Arc Cup International Welding Competition (hereinafter referred to as 2019 Arc Cup Competition) and the International Seminar of Advanced Manufacturing Technology and Skills will be co-hosted by China Section of BRICS Business Council, International Alliance of Skills Development (IASDBR), Asian Welding Federation (AWF), China Association of Inventions (CAI), China Center for International People-to-People Exchange (CCIPE), Ministry of Education, China Welding Association (CWA), China Workers' Welding Technology Association (CWWTA), Additive Manufacturing and 3D printing institution of Chinese Mechanical Engineering Society, and Organizing Committee of Arc Cup International Welding Competition (OC ARCIWC) in June or September, 2019, to establish an



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international professionals cooperation platform for skills development and technology innovation, promote skills development and technology exchanges, speed up the training of welders and improve their welding level.

The “Arc Cup” Competition has been successfully held for 6 sessions since its launch in 2010. Up to now, there have been over 30 countries and nearly 1900 competitors, participating the Competition, including Russia, UK, Swiss, Czech Republic, Austria, Portugal, Serbia, Thailand, Germany, Korea, Singapore, Kazakhstan, Vietnam, Mongolia, Cambodia, Ukraine, Belarus, Cameroon, Pakistan, Ghana, Indonesia, India, Malaysia, South Africa, Iran, Bulgaria, Romania and etc.

Hereby the notification of 2019 Arc Cup International Welding Competition is issued as below:

## **I. Organization Structure**

### **Hosts:**

China Section of BRICS Business Council

International Alliance of Skills Development (IASDBR)

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

China Association of Inventions (CAI)



### **Associated Hosts:**

China Welding Association (CWA)

China Workers' Welding Technology Association

Additive Manufacturing Institution of Chinese Mechanical Engineering Society

Asian Welding Federation (AWF)

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

### **Organizers**

Beijing ARC Xinxing Science & Technology Co., Ltd.

### **Co-organizers**

CNPC International Welding Training Centre

### **Supporters**

Surfacing & AM Committee of China Welding Association

China Construction Materials Machinery Industry Association

Welding Committee

Chinese National Tech-innovation Strategy Alliance for Additive Manufacturing and Remanufacturing Industry

### **Co-Supporters**

Administration Committee of Zhongguancun Science Park

Administration Committee of Zhongguancun Haidian Science Park



## II. Competition Projects and Competition Time

### 1. The Third International Welding Technology Competition

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

Time: September 4th-10th, 2019;

Venue: Langfang City, Hebei Province, China.

### 2. The Sixth International Robot Welding Competition

Time: June 25th-28th, 2019 (24th Beijing Essen Welding & Cutting Fair will be held concurrently);

Venue: Shanghai New International Expo Center (The 24th Beijing Essen Welding & Cutting Fair Site), Shanghai, China.

- (1) Robots Welding Programming and Operation Competition
- (2) Robot Additive Manufacturing with Welding Arc Competition
- (3) Intelligent Welding Production Line Programming and Operation Competition

### 3. The Seventh International Welding Skills Competition

Time: September 4th-10th, 2019;

Venue: Langfang City, Hebei Province, China

- (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)



(5) Finished-product Welding

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

(6) Welding Competition for Non-regulated Projects

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

#### **4. The First All-position Automatic Welding Competition for Pipeline**

During the competition, a group of pipes are to be completed by two welders, and the test pieces are to be welded up to complete the competition.

Time: September 4th-10th, 2019;

Venue: Langfang City, Hebei Province, China.

### **III. Competitor Requirement**

#### **1. The Third 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 Sixth International Robot Welding Competition**

Competitors should be qualified welding robot operators.

#### **3. The Seventh International Welding Skills Competition**



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

#### **4. The First All-position Automatic Welding Competition for Pipeline**

Without age limitation, each welder can only participate in one of the welding competitions.

#### **5. Participation Teams can be from:**

- (1) Enterprises;
- (2) Vocational schools;
- (3) Welding association/federation/society/organizations, etc.;
- (4) Individuals who are interested in welding.

### **IV. Assessment Standards & Ranking Method**

#### **1. Assessment Standards**

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

##### **(1) The Third International Welding Technology Competition**

This competition requires competitors to submit competition materials for expert assessment and make on-site defense. Competitors should submit materials by one of the following ways:

- ① Papers related to New Welding Technique/New Equipment/New Material/New Technology and presentation PPT;



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② Drawings + project photos + process description related to New Welding Technique/New Equipment/New Material/New Technology and presentation PPT.

### **(2) The Sixth International Robot Welding Competition**

This competition follows ISO9606 international standards and regulations.

### **(3) The Seventh International Welding Skills Competition**

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

### **(4) The First All-position Automatic Welding Competition for Pipeline**

The Competition is evaluated and assessed by the GB/T 31032-2014, GB/T 50818-2013 standard.

## **2. Ranking Method**

**(1) Group Award:** This award is granted to teams according to total team scores. The total scores of each team are calculated by adding up the scores of 3 best individual competitors from each team in single competition project. The teams 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) **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. Recognition and Awards

### 1. Group Awards

Group Awards are granted to teams. The teams will be honored with Cups and Certificates.

### 2. Individual Awards

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

(2) The Seventh International Welding Skills Competition and the Sixth International Robot Welding Competition: There are totally ten individual competition projects according to different welding process. Each project has the First, Second and Third Prize. And the First Prize has the First Place, Second Place and Third Place. The First Prize winners will be awarded certificates and medals; The Second and Third Prize winners will be awarded certificates.

(3) The First All-position Automatic Welding Competition for Pipeline: it will be awarded the first, second and third prizes with certificates and medals.





(4) All competitors have the equal chance to win the certificate of “Excellent Welder Prize” of 2019 Arc Cup International Competition.

(5) All qualified competitors will be eligible to get a Skill Passport. The Skill Passport is the international evaluation certificate for skills level, which can be used for international enterprise job application.

## VI. Priority

1. There is no registration fees for international competitors.
2. “National Winner” who won the First Place once in their national welding competition 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.
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 free accommodation during competition.

## VII. Application Method

For all participation units, please fill in and send the 2019 Arc Cup International Welding Competition Application Form (Electronic or



Paper Editions) and 1-inch electronic photo to the secretariat of OC ARCIWC by email [jiakexinxing@126.com](mailto:jiakexinxing@126.com) or [jiakebj@gmail.com](mailto:jiakebj@gmail.com).

## VIII. Contact Information

### Secretariat of OC ARCIWC:

**Address:** Room 906, No. 1 Building, Block C, BoyaCC, Zhongguancun Life Science Park, Changping District, Beijing

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### Contact Person:

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## 2019 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	Accompanying person	<input type="checkbox"/> Team leader <input type="checkbox"/> Coach <input type="checkbox"/> Competition Visitor	
Employer's Name		Contact Person		
Address				
Welding Competition Project Applied	1.The Third 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 Sixth International Robot Welding Competition <input type="checkbox"/> Robot Welding Programming and Operation Competition <input type="checkbox"/> Robot Additive Manufacturing with Welding Arc Competition <input type="checkbox"/> Intelligent Welding Production Line Programming and Operation Competition			
	3.The Seventh 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"/> Finished-product welding (111SMAW/141GTAW/ 135GMAW/136FCAW)	<input type="checkbox"/> Welding Competition for Non-regulated Projects
4.The First All-position Automatic Welding Competition for Pipeline		

**Remarks:**

Please email the Copy of Passport's First Page and the Application Form to the Secretariat of Organizing Committee before the deadline([jiakexinxing@126.com](mailto:jiakexinxing@126.com); [jiakebj@gmail.com](mailto:jiakebj@gmail.com)), the detail information is described as the Application Method. (For the welders, please come with your certificate of your Nationwide Welding Competition after emailing us the electronic copy firstly.)