



2026

BRICS SKILLS COMPETITION

(BRICS+ FUTURE SKILLS & TECH CHALLENGE)

Building Information Modelling BIM

BRICS-FS-06

Technical Description

(International Final)

June, 2026



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1 Project Overview

1.1 Project Description

1.1.1 Competition Name

BRICS Future Skills Challenge – Building Information Modeling (BIM) Event, hereinafter referred to as the BIM Event.

1.1.2 Competition Profile

The 2026 BRICS Future Skills Challenge - Building Information Modeling (BIM) Event is a two-person team competition. Two contestants shall cooperate to complete tasks covering architectural design, detailed design and project management. The competition consists of two major sections: standardized BIM model creation and BIM model analysis & application. It assesses contestants' capabilities in drawing reading, custom component creation and multi-disciplinary collaboration for BIM model building. Contestants need to conduct process simulation, detailed design and construction site layout planning based on finished BIM models, and generate construction drawings, calculate engineering quantities and produce animations with optimized models.

The competition adopts unified propositions based on real engineering project cases and given basic engineering data. Adhering to the tenet of *Demonstration, Exchange, Learning and Improvement*, it combines industrial development demands with talent training in vocational colleges, follows the principles of openness, fairness and impartiality, and integrates industrial standards and corporate requirements into vocational education.

This event targets professional roles including civil engineering technicians, project management technicians, business specialists and construction cost engineers, covering a wide range of construction posts. It focuses on core BIM-based project management work, including BIM model creation, BIM-enabled construction organization design, schedule management, cost management, as well as quality and safety management. It involves professional knowledge and skills related to engineering project management, construction organization design, engineering cost and civil engineering technology.

The competition guides vocational colleges to align talent training programs, curricula, curriculum standards, practical teaching and training base construction with industrial standards. Colleges can formulate curriculum standards based on industrial norms and employer requirements, and build a talent training system for application-oriented professionals meeting the demands of modern construction enterprises.

The competition adopts mature and widely used industrial hardware and software as well as internationally recognized technical platforms, inheriting the platform settings of previous BRICS Future Skills Challenges to guarantee the reliability and impartiality of the competition.

1.2 Competition Objectives

Against the background of economic transformation and industrial upgrading, this event responds to the market demand for high-skilled talents mastering new technologies, techniques and methods. It guides vocational colleges to deepen educational reform and major construction. The competition helps contestants

improve BIM modeling skills, master relevant software operation, and enhance the overall capability of teachers and students in building comprehensive BIM models, so that they can apply BIM technologies proficiently in practical work.

The core goal is to promote teaching and learning through competition, stimulate enthusiasm for construction technology learning, improve competencies in prefabricated and digital construction, and drive the transformation and upgrading of the construction industry. The competition fulfills the goal of *being based on teaching, exceeding teaching standards and leading teaching innovation*.

1. The BIM skills competition serves as an important platform to popularize BIM application in vocational institutions and cultivate construction information talents, as well as a practical arena for students to learn and apply BIM technologies.

2. It boosts major development and core competitiveness. As an emerging information technology in the construction industry, BIM drives vocational colleges to carry out BIM-related teaching, cultivate dual-qualified teachers and promote industry-university-research integration, so as to advance teaching reform, curriculum renovation, faculty development and application-oriented talent training.

3. The competition provides a stage for students to showcase their skills and boost career development. Based on real engineering cases, it simulates actual working scenarios, promotes cross-major BIM collaboration, and strengthens students' professional competence, practical ability and innovative thinking.

1.3 Eligible Participants

There are no separate competition groups. Participants include teachers and students from vocational colleges (vocational undergraduate colleges and technical

colleges included), regular universities, as well as employees from enterprises and public institutions. The age requirement is 16 to 35 years old (born between January 1, 1991 and January 1, 2010).

Any contestant who won the first place in the final of any event of previous BRICS Future Skills Challenges is not allowed to register for the same event in the 2026 competition.

2 Required Competencies for Contestants

This technical specification defines professional knowledge and practical competencies for BIM practitioners, complying with international best practices for technical and professional performance and reflecting the consensus on BIM job requirements across BRICS countries. It also acts as a guideline for pre-competition training and preparation.

The specification is divided into multiple sections with titles and serial numbers. Each section is assigned a percentage weight representing its relative importance in the total score, and the sum of all weights is 100%. The weight determines the score distribution in the scoring scheme.

The scoring criteria only assess the knowledge and skills specified herein. Competition questions shall fully cover the requirements of this skill standard within the limits of the competition.

Table 1 Competition Skill Standards

2026 BRICS Skills Competition (BRICS+ Future Skills & Tech Challenge)

No.	Item	Relative Weight (%)	Details
1	Project Organization & Setup	5	Knowledge & Understanding - Various applications of BIM modeling - Composition of basic BIM standard system - Applicable standards: ISO19650-1, ISO19650-2, GB/T51212, GB/T51235, GB/T51269, GB/T51301, JGJ/T448 - Current health and safety regulations - Professional terminology and symbols - Approved IT systems and professional design software - Principles of delivering design intent with accurate and clear information - Importance of effective communication and interpersonal skills - Necessity of continuous learning amid technological iteration - Ability to propose innovative solutions for project difficulties - Impact of BIM Execution Plan (BEP) on deliverables and schedules

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No.	Item	Relative Weight (%)	Details
			- Significance of project briefs for clients - Skills - Apply international (ISO 19650-1/2) and national (GB/T 51212, GB/T 51235, GB/T 51269, GB/T 51301, JGJ/T 448) standards - Access and identify standard component libraries - Interpret terminology and symbols for information models and construction drawings - Operate mainstream IT systems and design software to complete high-quality design and presentation - Coordinate and solve practical problems - Ensure modeling complies with BEP via team communication - Explain the functions and objectives of BIM to team members and staff - Interpret complex technical issues for professionals and non-professionals - Develop creative solutions for design

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No.	Item	Relative Weight (%)	Details
			challenges - Produce diversified visual deliverables to meet brief requirements
2	Modeling Software & Environment	5	Knowledge & Understanding - Computer operating systems - Peripheral devices for digital construction - Professional operations of design software - Workflow of digital construction projects - Limitations of design software - Common file formats Skills - Start devices and launch BIM software - Set up and inspect peripheral devices - Create, manage and store files for local and cloud-based BIM projects with operating systems and professional software - Select correct graphic modules from menus - Launch and operate BIM software in multiple ways

2026 BRICS Skills Competition (BRICS+ Future Skills & Tech Challenge)

No.	Item	Relative Weight (%)	Details
			- Configure software parameters
3	Design Interpretation	10	Knowledge & Understanding - Information provided in competition questions - Importance of Exchange Information Requirements (EIR) and Asset Information Requirements (AIR) - Current industrial standards - Work procedures based on BEP - Creation and editing of BIM data in the Common Data Environment (CDE) throughout the project lifecycle - Importance of file structure and sharing protocols in CDE Skills - Analyze design briefs to clarify project objectives, client demands and project location - Complete tasks in accordance with BEP, project briefs and EIR to meet competition

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No.	Item	Relative Weight (%)	Details
			requirements
4	Model Creation	50	Knowledge & Understanding - Software for modeling and multi-disciplinary collaboration - Classification methods for model elements by discipline - Project information management via visualization - Principles for architectural and structural modeling - Technical design specifications - Access and application of BIM project documents - Settings for collaborative model files - Configuration of project location, orientation and horizontal benchmarks - Establishment of Work in Progress (WIP) folders - Importance of information exchange at key project stages

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No.	Item	Relative Weight (%)	Details
			- Model development in compliance with standards - Application of 3D visualization tools Skills - Open designated project models from CDE directories - Complete project attribute settings with given data - Configure models as collaborative files - Set project location, orientation and horizontal benchmarks - Create grid lines for architectural and structural disciplines - Develop models strictly in accordance with provided drawings - Save models as specified views - Store all project models in CDE for cloud access by multi-disciplinary teams - Ensure data sharing complies with BEP - Operate cloud platforms

2026 BRICS Skills Competition (BRICS+ Future Skills & Tech Challenge)

No.	Item	Relative Weight (%)	Details
			- Output standard construction drawings as required - Generate 3D visual effects to demonstrate building features
5	Model Coordination	10	Knowledge & Understanding - Integration of multi-disciplinary BIM models - Principles of clash detection - Rules for uploading and saving clash reports - Procedures for recording clash detection results Skills - Integrate and split multi-disciplinary BIM models - Conduct clash detection in accordance with BEP - Export and store models to CDE as required by BEP - Integrate and submit models after cross-disciplinary coordination per BEP

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No.	Item	Relative Weight (%)	Details
			- Identify model defects via model walkthrough - Set clash detection parameters, generate clash reports and add annotations - Assign detected issues to designated BIM project managers - Name drawing files following BEP specifications
6	Model Revision	5	Knowledge & Understanding - Model modification methods - Drawing generation from architectural and structural models Skills - Update project models based on revised documents - Ensure all model data complies with latest standards - Add classification information to models per BEP - Generate floor plans, details and elevation

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No.	Item	Relative Weight (%)	Details
			drawings from revised models - Create detailed drawings for complex structural joints via BIM models
7	Data Extraction & Management	5	Knowledge & Understanding - Data extraction from BIM models - Creation of shared parameter files for customized data requirements - Application of customized data fields for project information - Use of filters and parameters to visualize customized data Skills - Create shared parameter files with customized parameters for selected building components - Develop filters to visualize customized parameters on 2D plans, sections and 3D cutaways - Generate project information containing

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No.	Item	Relative Weight (%)	Details
			customized parameters
8	Model Visualization	5	Knowledge & Understanding - Rendering image and animation generation via BIM models - Application of composition, background and auxiliary software for model presentation - Impact of solar trajectory and time on model rendering Skills - Develop comprehensive project models with accurate elevations (including images, animation videos and VR models) for presentation - Optimize visual effects via composition, lighting and background settings - Add personnel and auxiliary components from material libraries

No.	Item	Relative Weight (%)	Details
9	Model Detailed Design	5	Knowledge & Understanding - Construction plan compilation - File format conversion - Import and export of files in different formats Skills - Export files in various formats via BIM software - Complete construction process simulation with BIM software - Demonstrate key and difficult construction techniques - Back up project files

3 Competition Modules

3.1 Competition Modules Overview

Module No.	Module Name	Duration (min)	Weight (%)
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Module A	Structural Modeling	240	40
Module B	Architectural Modeling	210	35
Module C	Construction Organization Design	120	25
Total	-	570	100

3.2 Module Description

Module No.	Sub-module	Scope of Work
Module A Structural Modeling	Common Data Environment (CDE)	1. Establish CDE-compliant folder structures on designated local network servers. 2. Follow ISO 19650-1/2 standards for folder setup.
	Project Information	1. Create project files and complete project information configuration based on drawings. 2. Set floor elevations and assign

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		drawing files.
	Structural Modeling	1. Develop structural models including foundations, columns, beams, walls, slabs and stairs. 2. Generate construction drawings as required. 3. Create engineering quantity schedules.
	Reinforcement Detailing	1. Arrange and adjust steel reinforcement for designated components (columns, beams, walls, slabs, stairs, etc.).
	Model Export	1. Merge models, create backups and save files to designated folders.
Module B Architectural Modeling	Model Linking	1. Link structural models.
	Architectural Modeling	1. Set floor elevations, drawing files and grid lines.

		2. Develop architectural models including walls, doors and windows. 3. Generate construction drawings as required.
	Model Export	1. Merge models, create backups and save files to designated folders.
Module C Construction Organization Design	Schedule Formulation	1. Complete construction schedules for specified phases in accordance with competition questions and drawings.
	Site Layout	1. Complete construction site layout per specifications and drawings, and save files in CAD format. 2. Develop 3D site layout models based on 2D site layout drawings.
	4D Schedule Simulation Animation	1. Create 4D schedule simulation animations covering all construction nodes and site models; link components and site models to

		construction schedules.
	Construction Process Simulation	1. Generate terrain models. 2. Reasonably deploy manpower, materials, machinery, animations and process nodes. 3. Adjust camera angles for simulation.

3.3 Proposition Rules

The three independent modules combine to form a complete engineering project.

Skills assessed across modules include:

Common Data Environment (CDE), Project Information Model (PIM), Structural modeling, Architectural modeling, Joint detailing, Model coordination, Model revision, Data extraction, Site layout, 4D schedule simulation, Construction process simulation, Image and animation rendering.

Each module integrates the above skills and assesses different competencies.

3.4 Proposition Plan

Sample questions will be published on the official website. The official competition questions will be modified by 30% based on the sample questions.

4 Competition Rules

4.1 Participant Registration

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1. Registration Period

Registration opens on May 29 and closes on September 10.

2. Registration Portal: One team member shall complete online registration and submit information for all team members via the designated platform before September 10. Select *2026 BRICS Future Skills Challenge* on the page to finish registration. Each institution may register a maximum of 2 teams per event.

Official Registration Platform: <https://www.bricsacademy.org.cn/signup/index>

3. Personnel Adjustment: Registered contestants and instructors shall not be replaced without valid reasons. If replacement is necessary due to special circumstances, the participating institution shall submit a written application to the Competition Organizing Committee at least 5 working days before the competition for approval. Contestants who fail to show up without prior application will be deemed to have voluntarily withdrawn.

4. Qualification Review: Participating institutions are responsible for reviewing contestants' qualifications and retaining copies of certification documents for inspection. Any contestant with inconsistent identity documents will have their scores and honors revoked.

4.2 Venue Familiarization

1. After check-in, the organizer will arrange a unified venue tour for all teams.
2. During venue familiarization, contestants are prohibited from communicating with on-site staff or making improper remarks damaging the competition's reputation.
3. All participants shall abide by competition regulations, avoid crowding and

noise to prevent accidents.

4.3 Admission to Competition Venue

1. Contestants shall assemble at the designated area 60 minutes before the competition starts with competition badges, valid ID documents (ID card/passport), student ID or teacher qualification certificate. Workstation numbers will be drawn 30 minutes in advance, and contestants shall enter the venue by assigned numbers for preparation. Identity verification will be conducted by on-site referees. No admission will be allowed 15 minutes after the competition starts. Early departure is only permitted 30 minutes before the competition ends.

2. Except for permitted measuring tools, contestants are forbidden to bring any paper documents, communication devices or storage devices into the venue. Necessary supplies will be provided on-site.

3. No network access will be available in the competition venue.

4.4 Competition Process

1. After entering the venue, contestants shall inspect hardware and software immediately and report any faults to referees.

2. Before entry, the Chief Referee will announce venue disciplines and rules. Contestants may only start operations after referees' approval.

3. On-site referees have the right to inspect all items carried by contestants.

4. Contestants shall not leave their workstations or communicate with other participants during the competition. Any questions must be raised to referees by raising hands; violations will be deemed as cheating.

5. Only referees and official staff are allowed to stay in the competition area. Team leaders, instructors and other personnel are prohibited from entering without the Organizing Committee's approval.

6. Contestants shall strictly follow safety operating guidelines to ensure personal and equipment safety, and accept supervision from referees and technical staff. If equipment failure is caused by contestants' improper operation leading to inability to continue the competition, the Chief Referee has the right to terminate the contest. For non-human-induced equipment faults, the Chief Referee may grant extra time or arrange re-competition.

4.5 Competition Conclusion

1. Referees will remind contestants 15 minutes before the end of the competition. Contestants shall organize files and prepare for submission. All operations must stop immediately once the competition ends.

2. Teams finishing early shall notify referees by raising hands. No further operations are allowed after the termination time is recorded.

3. Contestants shall save all documents as required and keep computers powered on without setting passwords. After the competition, contestants shall submit storage devices, deliverables and task sheets, reset equipment and return tools.

4. Contestants are forbidden to take away task sheets, drawings, scratch paper, tools or other competition-related items. They may only leave after inspection and approval by referees.

5. Teams shall submit all deliverables as required and sign confirmation documents together with referees.

4.6 Code of Conduct for Participants

1. Contestants are not allowed to accept interviews related to competition content without approval from the Event Organizing Committee.
2. No unauthorized disclosure or publication of competition information is permitted.
3. Teams, leaders and instructors violating competition rules will be disqualified and publicly notified.
4. Contestants shall dress appropriately in compliance with industrial safety and civilized production requirements.
5. All staff shall wear official badges and maintain neat attire.
6. Media personnel may only enter the venue with approval from the organizing team and shall follow staff arrangements without disrupting the competition.
7. All unforeseen incidents shall be handled and interpreted by the Competition Organizing Committee.

4.7 Organizational Division, Result Evaluation and Announcement

1. Organizational Division

- (1) Departments in charge of result management: Check-in Team, Referee Team, Supervision Team and Arbitration Team.
- (2) Check-in Team: Responsible for roll call and identity verification, staffed by personnel from the host institution.

(3) Referee Team: Implements the Chief Referee Responsibility System, with 1 Chief Referee and 1 Deputy Chief Referee in overall charge of refereeing and management.

(4) Referees are divided into encryption referees, on-site referees and scoring referees according to competition requirements.

Encryption Referees: They are responsible for organizing team/contestant lot drawing, as well as encrypting and decrypting participant information. Assigned by the regional competition organizing committee, encryption referees for a single event must be from different institutions and shall not take part in scoring.

On-site Referees: They keep official competition records, maintain venue discipline, and assess contestants' operational standardization and on-site environmental safety in accordance with regulations.

Final Scoring Referees: They evaluate contestants' skill demonstration, operational standardization and competition works strictly in line with the official scoring criteria.

(5) Supervision Team: Oversee all referee work and conduct random inspection and review of competition results.

(6) Arbitration Team: Accept written appeals from team leaders, organize reviews and feedback results.

2. Result Evaluation Rules

Scoring consists of objective measurement and subjective evaluation. The subjective evaluation is divided into four performance levels with unified rating scales:

1. Below industrial standards
2. Compliant with industrial standards
3. Exceed industrial standards in partial aspects
4. Fully exceed industrial standards (Excellent)

Result evaluation includes on-site scoring and deliverable scoring, conducted by the Referee Team under the supervision of experts and the Supervision Team.

1. On-site Scoring: On-site referees score contestants' operational standards and on-site performance. Scores shall be signed and confirmed by contestants, referees and the Chief Referee.

2. Deliverable Scoring: Referees score submitted competition deliverables per evaluation criteria.

3. Encryption & Decryption: After scoring and review, Encryption Referees conduct reverse decryption under supervision. Participant identity documents will be returned after information verification.

4. Review & Spot Check: The Supervision Team shall review all results of the top 30% teams and conduct spot checks on no less than 15% of the remaining results. If the error rate exceeds 3%, all results shall be re-reviewed.

5. Result Announcement: Final results will be announced at the closing ceremony.

4.8 Referee Implementation Rules

This event adopts the Integrated Coach-Referee System. One instructor from each participating team will receive professional training and participate in scoring.

Senior experts from non-participating institutions and enterprises will take charge of overall referee management.

5 Competition Facilities and Equipment

5.1 Technical Platform Standards

All technical platforms shall fully meet the competition's skill requirements and support normal presentation of deliverables.

5.2 Environmental Requirements

No special environmental requirements.

5.3 Equipment List

Designated Software

No.	Software Name	Version	Provider
1	ALLPLAN	2023	Hangzhou Xiyu Technology Co., Ltd. /
2	BIMPOP	V1.0	

Workstation Supplies & Office Materials

No.	Item	Specifications	Unit	Quantity
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1	Double-person Desk	140×70×75 cm	Piece	2
2	Chair	54×42×77 cm	Piece	2
3	Computer (with Mouse, Keyboard & Monitor)	CPU ≥ i7-13700; RAM ≥ 16GB; SSD ≥ 256GB; GPU ≥ NVIDIA RTX2070; USB Port ≥ 4; Dual Monitor; Gigabit Network Card	Set	2
4	Power Strip	Double row with 6 sockets	Piece	2
5	Camera	1080P HD camera	Piece	2

6 Competition Guidelines

6.1 Guidelines for Participating Teams

1. All teams shall participate in all official events organized by the host institution.
2. Team members and leaders are prohibited from contacting referees privately during the competition. Teams found cheating will be disqualified with all results invalidated.
3. All participants shall comply with competition rules and complete evaluation tasks as required.
4. Teams violating competition discipline will receive penalties including warnings, result cancellation and public notification based on the severity of violations. Severe violations will be reported to the participant's institution and competent authorities. Criminal offenses will be referred to judicial authorities.

6.2 Guidelines for Team Leaders

1. Team leaders must attend pre-competition meetings and shall not be absent without valid reasons.
2. Leaders are responsible for organizing team members to participate in all scheduled activities.
3. Leaders shall coordinate communication between teams and the organizing committee and host institution.
4. Appeal Handling: If teams have objections to equipment, software, refereeing or on-site management, the team leader shall submit a written appeal to the

Arbitration Team within 2 hours after the competition ends.

5. Leaders shall conduct civilized competition education for team members and guide contestants to handle disputes via official procedures. Posting false information or improper remarks on social media is strictly prohibited.

6.3 Guidelines for Instructors

1. All instructors shall maintain professional ethics, obey referee decisions and reject fraud. Cheating will lead to disqualification.

2. Instructors shall assist leaders in managing team members and remind contestants to carry valid documents.

3. Instructors and leaders are not allowed to enter the competition venue without approval during the competition.

4. Any objections shall be submitted by the team leader to the Arbitration Team in writing within the specified time.

5. All participants shall abide by arbitration results. Contestants who suspend competition due to dissatisfaction with results will be deemed to have withdrawn.

6. Instructors shall keep updated with official notices, master competition regulations and venue requirements, and guide contestants to complete pre-competition preparation.

6.4 Guidelines for Contestants

1. Registered contestants shall not be replaced normally. Replacement is only allowed with official written approval before the competition starts. No replacement is permitted after the competition begins. Team members may be absent, but no new

instructors are allowed to join.

2. Contestants shall abide by venue rules and operating specifications, ensure personal and equipment safety, and accept supervision from referees.

3. Contestants must wear competition badges for identity verification during the entire competition.

4. Paper documents, communication devices and storage devices (e.g. USB flash drives) are prohibited in the venue. All software and hardware are provided uniformly.

5. Teams shall enter the venue to inspect equipment and working conditions one day before the competition.

6. Contestants shall not start operations before the official start signal and must complete tasks at assigned workstations. Cheating is strictly forbidden.

7. Referees have the right to terminate the competition for contestants causing operational errors or safety incidents.

8. Contestants shall not leave workstations during the competition. Food and drinking water are provided on-site; time spent on rest, meals and restrooms is included in the total competition duration.

9. Contestants who leave the venue early on the competition day shall not re-enter.

10. Contestants shall maintain workstations in compliance with the 5S Management Principles (Sort, Set in Order, Shine, Standardize, Sustain). Points will be deducted for messy work areas.

11. For non-human-induced equipment faults confirmed by referees, contestants may apply for extra time via the Chief Referee.

12. Teams finishing early shall notify referees by raising hands. No operations are allowed after termination.

13. Contestants shall submit deliverables strictly as required and shall not add irrelevant marks on files.

14. After submission, contestants and referees shall jointly sign confirmation documents.

6.5 Guidelines for Staff

1. All staff shall follow unified arrangements and perform duties earnestly to ensure smooth competition.

2. All staff shall arrive at designated posts on time and complete assigned tasks.

3. All staff shall wear official badges and conduct identity verification for all personnel entering restricted areas.

4. Any emergencies shall be reported immediately. Staff shall evacuate crowds properly to avoid major accidents.

5. Department heads shall stay on duty and coordinate team work efficiently.

6. Phone calls are prohibited in the competition venue.

6.6 Guidelines for Referees

1. The Referee Team implements the Chief Referee Responsibility System, with 1 Chief Referee, 2 Deputy Chief Referees and 1 Arbitration Supervisor. One instructor from each participating institution may serve as a referee, with duties assigned by the Chief Referee in pre-competition meetings.

2. Referees shall maintain integrity, sign confidentiality commitments and strictly keep competition information confidential. Private contact with contestants or teams and information disclosure are prohibited.

3. Referees shall wear unified uniforms and badges during work and accept supervision from participants.

4. Referees shall abide by competition rules, follow arrangements of the Organizing Committee and Chief Referee, and not leave posts without permission. Referees are forbidden to hint at or answer competition-related questions and shall stop violations in a timely manner. All technical disputes and emergencies shall be reported to the Chief Referee.

5. Referees shall not interfere with contestants' normal operations.

6. Referees shall score strictly in accordance with unified criteria, ensure fair and impartial evaluation, and reject arbitrary scoring, fraud and irregularities.

7. All referees must attend pre-competition training; otherwise, they will be disqualified.

8. Referees violating discipline will be included in the Competition Disciplinary List and permanently banned from serving as experts, referees, arbitrators, instructors or staff for all subsequent BRICS Future Skills Challenges. Their violations will be reported to their affiliated institutions and competent authorities.

- Violating competition rules and disciplines
- Disclosing or publishing confidential competition information via social media
- Being absent, late or leaving early for multiple times during work

6.7 Check-in Guidelines

1. Contestants shall carry ID card, student ID/teacher qualification certificate and competition insurance certificate for check-in. Participants with incomplete documents will be denied entry.

2. Submit copies of ID card (front & back on one A4 page), student ID/teacher qualification certificate and accident insurance document.

3. Complete registration forms and ensure contact information is available throughout the competition.

4. Verify personal information, complete accommodation check-in, and receive official supplies including leader badge, instructor badge, contestant badge, competition uniform and event guide.

7 Venue Layout Requirements

Please refer to Figure 1 for the layout of competition areas and workstations.

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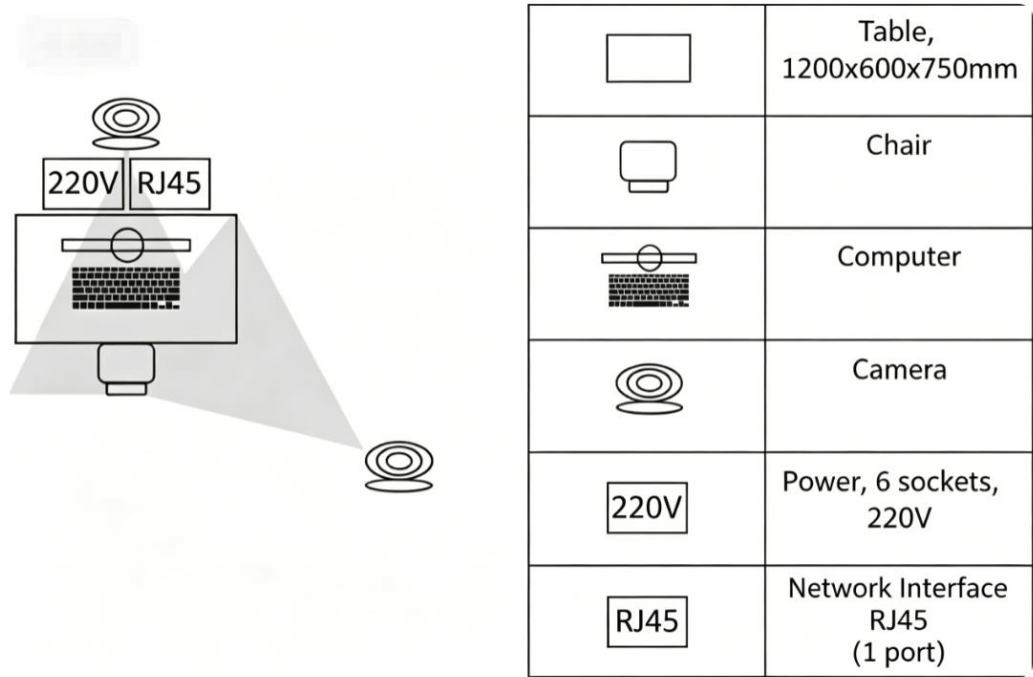


Figure 1 Layout of Competition Areas and Workstations

Please refer to Figure 2 for the layout of scoring referee room and encryption rooms.

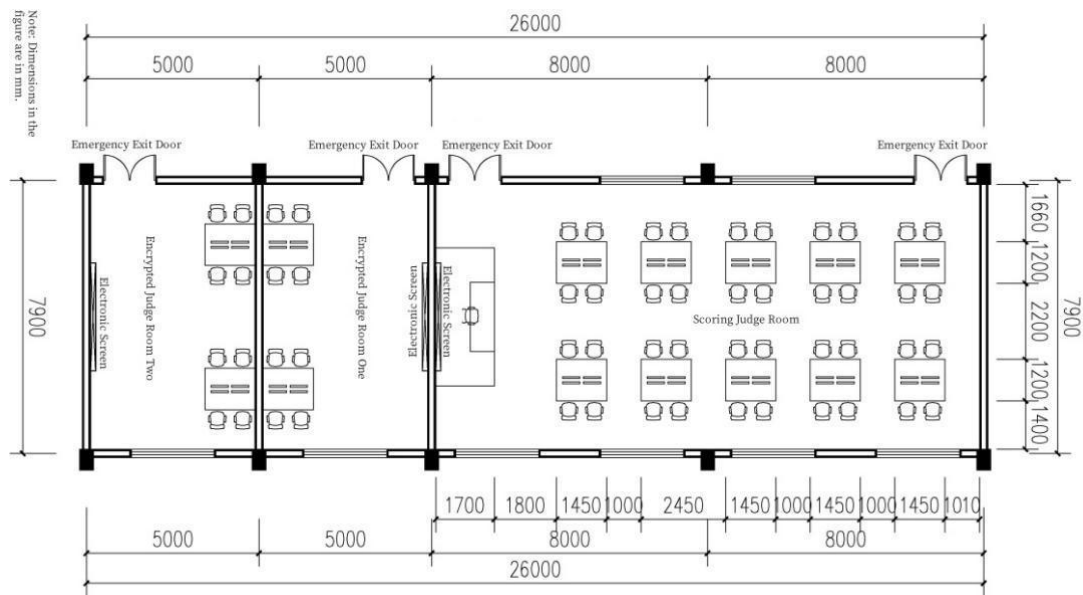


Figure 2 Layout of Scoring Referee Room and Encryption Rooms

8 Health and Safety

Event safety is the prerequisite for the smooth operation of the skills competition. The Organizing Committee will take effective measures to protect the personal safety of all participants, instructors, experts, referees, technical staff and volunteers.

(1) Safety Precautions

1. Contestants shall inspect equipment conditions before use, abide by operating guidelines and accept referees' supervision.
2. Contestants shall be familiar with equipment parameters to ensure normal operation.
3. Do not touch 220V power sockets to avoid electric hazards.
4. Prepare 5%–10% backup hardware devices to prevent competition

interruptions caused by equipment faults.

5. The host institution shall equip standby power supplies or generators to cope with sudden power outages.

(2) Safety Management Requirements

1. The organizing team shall inspect venues, accommodation and transportation in advance and eliminate potential safety hazards. Venue facilities shall comply with national safety standards.

2. Set up warning lines around the venue and arrange on-site guards to prevent unauthorized access.

3. Formulate emergency response plans and assign first-aid personnel and facilities.

4. Develop crowd evacuation plans, set clear signs and reserve emergency passages.

5. Arrange continuous safety patrols during the competition and keep safety management logs.

6. Conduct security checks for personnel entering key areas; communication and recording devices are prohibited without approval.

(3) Living Conditions

1. Accommodation facilities shall hold valid business licenses.

2. The host institution shall uniformly arrange accommodation and catering for all participants. Respect religious beliefs and customs of ethnic minority participants.

3. Ensure traffic safety for all participants, referees and staff.
4. All safety management shall comply with national laws and regulations to protect personal privacy and freedom.

(4) Emergency Response

Any accidents shall be reported to the Competition Executive Committee immediately, with proper on-site disposal. The Executive Committee shall activate emergency plans and report to the national Organizing Committee. The national Organizing Committee has the final decision to suspend the competition in case of major safety or public health incidents.

(5) Penalty Measures

1. The host institution will be disqualified from hosting future events if major accidents occur at the venue.
2. Teams causing major accidents will be disqualified.
3. Teams refusing to rectify violations after referee warnings will be suspended from the competition upon approval of the Chief Referee.
4. Staff violating rules will be held accountable; those causing major accidents will be referred to judicial authorities.

5. Appeal and Arbitration

A two-level arbitration system is adopted: the regional Arbitration Committee

and the event Arbitration Working Group. The event Arbitration Working Group operates independently under the leadership of the Competition Executive Committee.

1. Appeal Subject: Only team leaders are entitled to submit appeals against improper equipment, software, tools, refereeing, venue management or staff misconduct.

2. Appeal Form: All appeals must be submitted as written documents signed by the team leader. Oral appeals will not be accepted. The appeal document shall clearly describe facts, time, involved personnel and appeal basis.

3. Time Limit: Appeals must be submitted within 2 hours after the competition ends. Late appeals will be rejected.

4. Arbitration Process: The Arbitration Working Group shall complete review and issue written results within 2 hours after receiving the appeal. If the team disagrees with the result, the team leader may file a second appeal to the regional Arbitration Committee, whose decision is final.

5. Result Receipt: Appeal results shall be signed and received by the team leader in person. Absence at the designated time will be deemed as abandonment of appeal.

6. Teams may withdraw appeals voluntarily during the process.

7. All appeal information must be truthful. Teams are prohibited from taking radical actions to disrupt venue order during the appeal process.



BRICS Skills Competition (BRICS Future Skills Challenge)