2025
BRICS SKILLS COMPETITION
(BRICS+ FUTURE SKILLS & TECH CHALLENGE)

Application of AI Technology

BRICS-FS-56

Technical Description
(International Final_Onsite)

May, 2025

Contents

1 Introduction

1.1 Event Name and Description of Skills Competition

1.1.1 Event Name

Application of AI technology event of the 2025 BRICS Skills Competition (BRICS+ Future Skills Challenge).

1.1.2 Description

The application of artificial intelligence technology event of the 2025 BRICS Skills Competition will be held, it focuses on the basic theories, technical applications and practical skills of artificial intelligence, aiming to assess students' abilities in data processing, algorithm design, programming implementation, model training, etc. This competition is mainly aimed at majors related to the new generation of information technology. The specific modules examined include four modules: image processing t, application of machine learning, application of deep learning, and application development of NLP. Achieve the goal of cultivating internationalized, highly skilled, future-oriented technical and skilled talents. The competition is provided with a competition environment and assessment system by a professional artificial intelligence skills competition platform. Contestants complete the task assessment through offline methods. The international finals of this competition are individual matches.

The participants of this skills competition are full-time students currently enrolled in higher vocational colleges and technical colleges. They should use Python and be

based on mainstream AI frameworks at home and abroad such as OpenCV, TensorFlow, and PyTorch. Using classic machine learning algorithms, open-source algorithms of computer vision, convolutional neural networks (CNN), recurrent neural networks (RNN), long short-term memory networks (LSTM), and other technologies, complete the application and development of models related to OpenCV image processing, machine learning, deep learning, natural language processing, and other modules. The assessment content is as follows:

Module A: Image Processing Technology

Using OpenCV, the basic operations of images, image processing, and the extraction and analysis of image features are accomplished. Including but not limited to reading and display, image format conversion, acquisition of basic image attributes, image saving, image filtering, color space conversion, edge detection, etc.

Module B: Application of Machine Learning Algorithms

It mainly examines the application of classic algorithms of machine learning, data preprocessing, feature engineering, model selection and optimization, model evaluation and other knowledge contents, including but not limited to data understanding and preprocessing, feature engineering, model selection and optimization, model evaluation and verification, etc.

Module C: Application of Deep Learning Technology

The main focus is on the development of models in the fields of image classification, object detection, and semantic segmentation, based on deep learning frameworks such as TensorFlow and Pytorch. Deep learning technologies include but not limited to dataset invocation, data preprocessing, deep network construction, model training, model testing, and model application.

Module D: Application Development of Natural Language Processing

Based on practical problems, it examines text classification, sentiment analysis, machine translation, question-answering systems, text generation, etc. Including but not limited to text cleaning, word segmentation and annotation, feature extraction of bag-of-words models, model selection and optimization, evaluation and validation, etc.

1.2 The Relevance and Significance of this Document

This document contains the standards required for this skills competition, as well as information on the evaluation principles, methods and procedures for managing the competition.

Every expert and contestant must understand and comprehend this technical description.

2 Skill Standards

2.1 A General Description of Skill Standards

Skill standards stipulate knowledge, understanding and specific skills, which are the best practices in technical and professional performance internationally. It will reflect the global consensus on what relevant job roles or occupations represent in industry and enterprises.

The skills competition aims to reflect the international best practices described by the skills standard and the extent to which they can be achieved. Therefore, this standard serves as a guide for the training and preparation required for skills

competitions.

This standard is divided into different sections with titles and reference numbers.

Each part is assigned a percentage of the total score to indicate its relative importance in the criteria. This is usually referred to as "weight". The total score of all percentages is 100. The weight determines the distribution of scores in the scoring criteria.

Through the competition questions, the scoring scheme only evaluates the skills listed in the standards. They will reflect the standards as comprehensively as possible under the constraints of the skills competition.

The scoring scheme will be conducted within the possible range. A 5% variation is allowed, but the weights allocated by the standard norms must not be changed.

2.2 Skill Standards

Part	weight(%)
Module A: Image Processing Technology	**20**
Contestants need to know and understand: ①Gain an in-depth understanding of the basic architecture, functional modules and usage methods of the OpenCV. ② Master the basic operations in OpenCV, such as image reading, image display and image saving. Knowledge of image processing and computer vision ③ Be familiar with the basic concepts, principles and methods of digital image processing, including image preprocessing, feature extraction, object detection, image segmentation, etc.	

④ Understand the basic principles and applications of computer vision, such as image recognition, image matching, 3D reconstruction, etc.

⑤ Proficient in Python programming language, able to write efficient and standardized code.

⑥ Be familiar with commonly used algorithms and data structures and be able to apply them to solve practical problems.

Contestants should be able to:

① Be capable of flexibly applying the functions in the OpenCV for image processing and analysis.

② Be familiar with common functions in OpenCV, such as image transformation, filtering, edge detection and feature extraction.

③ Possess the ability to independently complete image processing or computer vision projects.

④ Be capable of designing and implementing image processing algorithms or systems based on actual needs.

⑤ Be capable of analyzing specific problems and proposing reasonable solutions.

⑥ Be good at applying the knowledge learned to solve practical problems, and possess innovative thinking and practical ability.

Module B: Application of Machine Learning Algorithms	30

Contestants need to know and understand:

①Supervised learning, unsupervised learning, reinforcement learning.

② Classification tasks, accuracy rate, precision rate, recall rate, F1 score, ROC-AUC.

③ Regression tasks, mean square Error (MSE), mean absolute Error (MAE).

④ Clustering tasks, contour coefficient, Davies-Bouldin index.

⑤ Overfitting and underfitting, solutions and techniques for overfitting and underfitting.

⑥ Algorithm selection and optimization, linear model, Support Vector Machine (SVM) : Suitable for small datasets and high-dimensional features.

Contestants should be able to:

① Quickly identify task types (classification, regression, clustering, etc.) and clearly define the input and output forms.

② Discover potential problems through data distribution and characteristic statistics (such as mean and variance).

③ Select appropriate evaluation indicators based on business requirements.

④ Proficient in handling missing values and detecting outliers.

⑤ Key features can be screened through methods such as correlation coefficient, mutual information, and SHAP value.

⑥ Be capable of selecting models based on data scale and task complexity.

⑦ Master parameter adjustment methods such as grid search and Bayesian optimization, and understand key parameters. ⑧ Master verification methods such as K-fold cross-validation and the one-of-a-kind method to avoid overfitting. ⑨ Model defects can be located through methods such as confusion matrices and error sample visualization.	
Module C: Application of Deep Learning Technology	**30**
Contestants need to know and understand: ①Master the basic principles of deep learning, including neural networks, activation functions, loss functions, optimization algorithms, etc. ②Understand the training process of deep learning models, including data preprocessing, model training, and hyperparameter adjustment, etc. ③Based on the case background, master the basic knowledge of related fields, such as computer vision, natural language processing, speech recognition, etc. ④Keep abreast of the cutting-edge technologies and research trends in the relevant field.	
Contestants should be able to: ①Model building and training can be carried out using deep learning frameworks such as TensorFlow and PyTorch to build and train models. ② Be familiar with common problems and solutions in the	

model training process, such as overfitting, underfitting, gradient vanishing, etc. ③Master skills such as data cleaning, preprocessing, feature extraction and feature selection. ④ Be capable of designing reasonable feature engineering schemes based on task requirements to enhance model performance. ⑤ Be familiar with the evaluation metrics of deep learning models, such as accuracy rate, recall rate, F1 score, AUC, etc. ⑥ Be capable of optimizing the model based on the evaluation results, including adjusting hyperparameters and improving the model structure, etc. ⑦Be capable of designing and implementing complete deep learning cases based on the requirements of the competition or actual needs. ⑧ Be familiar with the model deployment process and be capable of deploying the trained model to actual application scenarios.	
Module D: Application Development of Natural Language Processing	**20**
Contestants need to know and understand: ①Master basic techniques such as word segmentation, part-of-speech tagging, named entity recognition (NER), and syntactic analysis.	

② Understand the application scenarios of NLP tasks such as text classification, sentiment analysis, and text generation.

③ Be familiar with the principles and applications of pre-trained language models (such as BERT, GPT, T5).

④ Master the model evaluation metrics (such as accuracy rate, F1 score, BLEU value, etc.).

⑤ Understand model compression techniques (such as pruning and quantization) to reduce model size and inference time.

⑥ Be capable of deploying the trained model to achieve real-time inference.

Contestants should be able to:

① Proficient in Python programming language and familiar with common libraries such as NLTK, spaCy, and Transformers.

②Be capable of using deep learning frameworks such as TensorFlow and PyTorch for model training and deployment.

③ It can clean, label and preprocess large-scale text data, including noise removal and text normalization, etc.

④Master data augmentation techniques, such as synonym replacement and back translation.

⑤ Be capable of selecting the appropriate model according to the task requirements and conducting Fine-tuning.

⑥Be capable of optimizing model performance by adjusting hyperparameters, using learning rate scheduling and other methods.

3 Scoring Scheme

3.1 Scoring Method

The scoring of this competition will be automatically conducted by the examination system, and then the review will be completed on-site by the judging panel. If a contestant cheats or engages in other violations during the competition, the referee will handle the situation based on the contestant's violation. Those with serious circumstances will have their results disqualified.

3.2 Scoring Rules

1. Those with higher total scores will rank higher.

2 For those with the same total score, the ranking will be in the order of Module B, Module C, Module D, and Module A. The candidate with the higher score in each module will be ranked higher. For details of each module, please refer to 4.4 of this article.。

3.3 Evaluation Basis

During the competition design process, the selection of standards and evaluation methods will be determined through the scoring scheme and competition questions.

Evaluation basis, including but not limited to:

● Utilizing image processing techniques, complete image operations；

● Proficient in applying classic machine learning algorithms;

● Build deep learning models and develop deep learning applications;

● Achieve the development of natural language processing application cases.

4. Test Project

4.1 Common Precautions

Whether it is a single module or a series of independent or related modules, the competition questions can evaluate the application of the knowledge, skills and behaviors defined in the standard.

In combination with the scoring scheme, the purpose of the competition questions is to provide a comprehensive, balanced and realistic opportunity for the evaluation and scoring based on the standard. The relationship between the competition questions and the scoring scheme and the standard will be a key indicator of quality, just like the relationship between the standard and actual work performance.

The competition questions do not include aspects outside the standard and do not affect the balance of the scoring within the standard.

The evaluation of knowledge and understanding in the competition questions is only conducted through the application of it in actual work.

4.2 Competition Question Format/Framework

The competition questions consist of four independent and interrelated modules:

Module A: Image processing technology

Module B: Application of machine learning algorithms

Module C: Application of deep learning technology

Module D: Development of natural language processing applications

4.3 Time Allocation and Score Weighting for Each Module

Modules	Time（min）	Score Weight（%）
Module A: Image Processing Technology	360	20
Module B: Application of Machine Learning Algorithms		30
Module C: Application of Deep Learning Technology		30
Module D: Application Development of Natural Language Processing		20
Total	360	100

4.4 Contents and Scoring Criteria of Each Module

This event consists of four modules, including: Module A: Image Processing Technology; Module B: Application of Machine Learning Algorithms Module C: Application of Deep Learning Technology Module D: Natural Language Processing Application Development, comprehensively assessing the contestants' basic theories, practical skills and innovation capabilities in artificial intelligence, thereby enhancing their professional qualities and employability.

Module A: Image processing technology, mainly based on the OpenCV, completes basic image operations, regenerates classic image processing algorithms, such as edge detection, histogram equalization, filtering and denoising, etc., and verifies their robustness on different types of image data.

Module B: Application of Machine Learning Algorithms. Contestants need to use

Python and mainstream machine learning libraries (such as Scikit-learn, TensorFlow Lite, Pandas, etc.) to complete the full-process development from data preprocessing, feature engineering to model training and evaluation.

Module C: Application of Deep Learning Technology

Based on convolutional neural networks, recurrent neural networks, etc., and with TensorFlow, Pytorch, etc. as frameworks, deep neural networks were built and deep models were trained to complete the application development such as image recognition, image classification, and semantic segmentation.

Module D: Application Development of Natural Language Processing . Contestants are required to use Python and mainstream NLP tool libraries (such as NLTK, spaCy, Transformers, etc.) to complete the entire development process from data cleaning, model training to server-side deployment.

The scoring criteria for the competition are based on knowledge points or individual questions. Each question is assigned a score, and the total score for each module follows the 4.3-point weighting configuration.

Module Number	Module Name	Job Area
A	image processing techniques	1.Image reading and display: Read the image using cv2.imread(), display the image using cv2.imshow(), save the image using cv2.imwrite() ; 2.Image transformation: including color space transformation, such as between RGB and grayscale, using the cv2.cvtColor() function ; 3. Boundary filling: Fill the edges of an image. Common methods include copy boundary, reflection boundary, and

		convolution boundary ;
		4. Image scaling: Resize the image using the cv2.resize() function ;
		5. Image filtering: Remove noise from a given image using mean filtering, Gaussian filtering, median filtering, etc.
		6. Edge detection: Accurately detect edges using the Canny edge detection algorithm in combination with Gaussian filtering and double-threshold processing.
		7.Threshold segmentation: Use cv2.threshold() to implement global or adaptive threshold segmentation.
		8. Contour detection: Use cv2.findContours() to extract the target contour and draw the contour boundary.
		9. Object detection: Use OpenCV related functions to build a pedestrian detector.
B	Application of machine learning algorithms	1. Use Logistic Regression, Support vector Machine (SVM), and K-nearest neighbor (KNN) to implement binary or multi-classification tasks (such as the classification of the iris dataset).
		2. Compare the performance of different classifiers (accuracy rate, recall rate, F1 score).
		3. Use linear regression, decision tree regression, and random forest regression to predict housing prices or stock prices.
		Analyze the importance of features and the problems of

		model overfitting/underfitting.
		4. Use K-Means and hierarchical clustering to cluster the customer data (such as the RFM model).
		Non-spherical data are processed using DBSCAN or Gaussian Mixture Model (GMM).
		5. Use Principal Component Analysis (PCA) and t-SNE to visualize high-dimensional data (such as dimensionality reduction of handwritten digits in MNIST).
C	Application of deep learning technology	1. Use the convolutional neural Network (CNN) to perform multi-category classification on the given data set (such as CIFAR-10, ImageNet subset).
		2. Implement the application of techniques such as data augmentation (rotation, flipping, etc.) and transfer learning (fine-tuning based on pre-trained models).
		3. Use models such as YOLO and Faster R-CNN to detect specific objects (such as pedestrians and vehicles) in images.
		4. Mark the detection boxes, calculate the mean average accuracy (mAP), and optimize the balance between detection speed and accuracy.
		Image segmentation
		5. Semantic segmentation or instance segmentation is implemented using models such as U-Net and DeepLab. Evaluate the pixel-level classification accuracy and explore

		multi-scale feature fusion techniques. 6. Use generative adversarial networks (Gans) or diffusion models to generate images of specific styles (such as art paintings and medical images). 7. Use image recognition technology to achieve lane line detection, traffic sign recognition and pedestrian warning.
D	Development of natural language processing applications	1. Utilize classic machine learning algorithms to conduct sentiment analysis (positive/negative/neutral) or topic classification (sports/technology/entertainment) on news, comments and other texts. 2. Evaluate the model using assessment indicators such as accuracy rate and F1 score. 3. Extract entities such as names of people, places and organizations from the text. 4. Use the Transformer architecture (such as T5, M2M100) to achieve Chinese-English translation and evaluate the BLEU score. 5. Use the Seq2Seq model and the GPT series models to generate summaries, dialogue responses or poems based on the input and evaluate the ROUGE score.

4.5 About Test Project

The test project will be announced on the website (http://www.brskills.com/jzzy/productjs.html).

4.6 About the Change of Test Project

Before the official competition, the test project will be modified by 30%.

5. Skills Management and Communication

5.1 Panel

The panel is composed of the chief expert, deputy chief expert and expert members. They are responsible for jointly revising the technical documents of this competition and daily management.

5.2 Forum

For any questions related to software and hardware preparations, deployment of the examination environment, etc. before the competition, the participants can enter the WeChat group or QQ group on the artificial intelligence platform to provide feedback. The training and communication for this competition, including before, during and after the competition, will also be carried out through WeChat groups or QQ groups.

The online communication will use the international version of WeChat as the instant messaging tool and Zoom (alternative: the international version of Tencent Meeting) as the meeting tool.

6. Safety Requirements

6.1 Institutional Framework

1. Establish a competition safety guarantee team, with the team leader appointed by the chairperson of the competition organizing committee. The team members will be the safety responsible persons of each competition venue. Each competition venue shall designate a safety responsible person who is fully responsible for the safety of the venue. In case of an emergency, they are responsible for mobilizing rescue teams and professional rescue personnel, and arranging the evacuation of the venue personnel.

2. Establish a coordination mechanism with relevant departments such as public security, fire protection, judicial administration, transportation, health, food, and quality inspection to ensure the safety of the competition. Develop emergency response plans and promptly handle emergencies. Set up dedicated lines of communication for medical staff, firefighters, and security personnel, and determine the contact persons. The site safety responsible person will make direct contact with the relevant parties. The layout of the competition venue and the use of equipment shall be carried out strictly in accordance with safety construction regulations. The venue layout shall be divided into areas, and evacuation routes shall be set according to safety requirements. Safety evacuation route and route diagrams shall be posted conspicuously on the walls.

6.2 Safety Management of the Competition

1. The installation of competition equipment and facilities is carried out strictly in

accordance with safety construction standards, and the power wiring and electrical installations are carried out in accordance with the norms.

2. Fire extinguishers are placed in accordance with fire safety requirements, and a designated person is assigned to use them in emergencies.

3. The competition regulations clearly specify the relevant safety norms, regulations and qualification certificate requirements for national (or industry) related professional positions.

4. The competition executive committee conducts safety training for all judges and staff of this competition before the event. According to laws and regulations such as the "Labor Law of the People's Republic of China", a complete safety accident prevention system is established, and training is provided to the contestants before the event to avoid personal injury accidents.

5. The competition executive committee will establish a special plan to ensure the safety of the competition proposition, competition questions storage, distribution, collection and evaluation process.

6.3 Safety Management of the Competition Environment

1. Before the competition, the organizing committee of the event sent special personnel to inspect the competition venue, accommodation facilities and transportation support, and put forward clear requirements for safety work. The layout of the venue, the equipment and facilities within the venue comply with relevant national safety regulations. Simulation tests of the venue were also conducted to identify potential problems. The organizing unit carried out safety hazard elimination in accordance with the requirements of the organizing committee of the event before

the competition.

2. A cordon was set up around the venue to prevent irrelevant personnel from entering and to prevent accidents. Necessary labor protection was provided for the contestants according to the requirements of relevant professional positions within the competition venue. In dangerous operation sections, the judges should check and confirm the normal operation of the equipment before the competition and strictly prevent contestants from making incorrect operations during the competition.

3. To ensure the smooth progress of this competition, the organizing college established corresponding safety guarantee systems during the competition period and implemented them by the security protection, campus environment and health medical guarantee groups.

(1) All vehicles and personnel entering the competition area must present their credentials and actively show them to the staff.

(2) Before the competition starts, contestants should carefully read the "Entry Instructions" and emergency evacuation map posted in the venue.

(3) The judges supervise the entire process of checking the electrical control system before power-on during the competition, and promptly remind and stop any operation hazards that occur.

(4) Each competition equipment uses an independent power supply to ensure safety. Contestants should save their work frequently when programming computers to avoid data loss due to sudden power outages.

(5) During the competition, contestants should strictly follow the safety operation procedures. In case of emergency, they should immediately cut off the power and orderly evacuate under the arrangement of the staff.

(6) All personnel must strictly abide by the venue rules and are strictly prohibited from bringing in items prohibited during the competition.

(7) Security personnel should promptly report any safety hazards to the venue responsible personnel.

(8) Smoking is strictly prohibited in the competition venue, and security personnel are not allowed to transfer their certificates to others.

(9) If there are safety issues, they should evacuate the site quickly along the emergency evacuation route under the command of the security personnel.

4. The organizing committee of the event and the organizing unit set up complete indication signs and additional guiding personnel in the densely populated areas and areas with intersecting traffic and flow of the venue.

5. During the competition, the organizing unit of the event increased manpower at key positions of venue management and established a safety management log.

6. When contestants enter their positions and the competition judges enter their work areas, the organizing unit must remind and urge the contestants and competition judges to strictly prohibit carrying communication, photography and recording equipment, prohibiting carrying unauthorized recording tools, and conducting security checks on the personnel entering important areas of the venue.

6.4 Living Conditions Guarantee

1. During the competition, the organizing unit will uniformly arrange accommodation and meals for the participants and the instructors. The organizing unit must respect the religious beliefs and cultural customs of the minority participants, and arrange their diet and daily life in accordance with the relevant ethnic and

religious policies of the country.

2. The accommodation locations arranged during the competition must have the qualifications for hotels and accommodation operations.

3. The traffic safety for organized visits and observations during the competition is the responsibility of the organizing committee of the competition area. The competition committee and the organizing unit must ensure the traffic safety of the participants, instructors, judges, and staff during the competition.

4. In addition to necessary safety isolation measures, strictly abide by relevant national laws and regulations, and protect personal privacy and personal freedom.

6.5 Team Responsibilities

1. Each participating unit must arrange for the purchase of personal accident insurance for the participating athletes during the competition.

2. After the formation of each unit's participating team, relevant management systems must be established, and safety education must be provided to all participating athletes and instructors.

3. Each participating team must strengthen the safety management of the competition participants and coordinate with the safety management of the competition venue.

4. If the participating team has vehicles, they must enter and exit the competition venue with the certificates issued by the competition organizing committee, and drive along the designated routes and park at the designated locations.

6.6 Emergency Response

In case of any accident during the competition, the discoverer should immediately report to the competition organizing committee and take measures to prevent the situation from worsening. The organizing committee should immediately activate the contingency plan to resolve the issue. For competitions with major safety problems, the regional organizing committee will decide whether to suspend the competition. Afterwards, the regional organizing committee should issue a detailed report on the situation.

6.7 Punitive Measures

1. If a major safety accident occurs during the competition, the organizing unit's qualification to host the event will be suspended.

2. If a major safety accident is caused by the participating teams, their eligibility for awarding prizes will be revoked.

3. If a major safety hazard occurs among the participating teams and is not rectified after being warned by the staff at the competition venue, their qualification to continue competing will be cancelled.

4. If the event staff violate the relevant regulations, they will be held accountable according to the corresponding system. If the circumstances are severe and result in a major safety accident, the relevant legal responsibilities will be pursued by the judicial authorities.

7. Materials and Equipment

7.1 List of Infrastructure

The infrastructure list provides a detailed list of all the equipment and facilities that the participants need to prepare. Please refer to "Infrastructure List for the 2025 BRICS Skills Competition Offline Competition - Artificial Intelligence Technology Application Category" for more information.

7.2 The Toolbox of the Contestants

For safety reasons, the use of one's own tools requires the approval of technical experts. When other special tools are needed, the chief expert of the competition will announce them.

7.3 List of Competition Equipment

7.3.1 Technology Platform

Number	Platform Name	Quantity	Remark
1	Guoji Beisheng Online Examination System	1	
2	Anaconda	1	

### 7.3.2 Specification Parameter

Number	Platform Name	Specification Parameter

1	Guoji Beisheng Online Examination System	Ensure that the contestants can log in normally and submit their answers.
2	Anaconda	Make sure that the contestants can start the competition questions and run the code

7.4 Materials and Equipment that are Prohibited from Being Used Within the Skill Area

Any materials and equipment carried by the participants must be reported (presented) to the experts. The experts have the right to prohibit the use of any items that are not related to the mission or that might give an unfair advantage to the competitors.

7.5 Suggested Layout of the Competition Area and Workstations
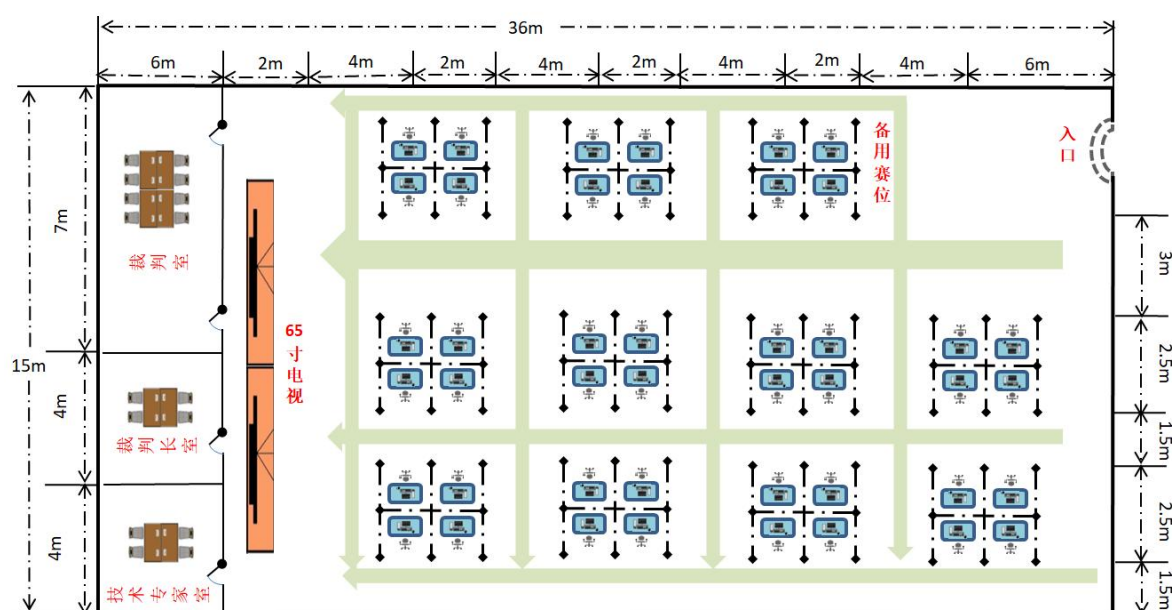
8. Rules Specific to Skills

Rules specific to skills cannot contradict or take precedence over the competition rules. They will provide specific details and clear explanations in different aspects, which vary depending on the skill competition. These include, but are not limited to, personal computing devices, data storage devices, internet access, work procedures, and document management and distribution.

Special Topic / Task	Rules Specific to Skills
Using Technology - USB	1) It is prohibited to bring memory cards or any other portable storage devices into the competition venue.
Technologies Used: Personal laptop computers, tablets and mobile phones	1) Experts and interpreters are allowed to use personal laptops, tablets and mobile phones. 2) Participants are not permitted to bring personal laptops, tablets or mobile phones into the competition venue.
Using Technology - personal camera	Only after the completion of the testing project or with the approval of the chief expert, can the participants, experts and interpreters use their personal cameras and video recording devices at the venue.
Evaluation of the test items	A senior expert appoints a supervisory expert with the highest professional level in this field. During the participants' completion of the test items, this expert records the completion or non-completion status of each test item. These statuses can only be evaluated during the participants' task completion period. The designated expert is fully responsible for the fairness of the participant evaluations.
The participants encountered technical problems during the completion of the task.	1）If technical problems occur during the implementation of the test project (not due to the fault of the participants), the participants will be granted additional time, which is equal to the time from the discovery of the defect to its complete elimination.。 2）If it is found that the technical issue was caused by the fault of the participants, the participants will not be granted any additional time.
PPE (Personal Protective	Personal protective equipment such as masks should be

| Equipment) | brought by the participants themselves. |