



# *7<sup>th</sup> International Abilympics*

## *Vocational Skills Contest*

### V3. CAD - Architecture

#### 1. Task

In accordance with 6 below, decode the provided task assignment (sketch, structural member schedule, door and window schedule), and draw the preliminary design drawings (1<sup>st</sup> floor plan, 2<sup>nd</sup> floor plan, exterior elevation, and section) using the CAD system.

#### 2. Allocated time

3 hours

#### 3. How to present the completed work

When the allocated time has passed, contestants shall store their completed work (or uncompleted work if not finished) in the USB memory and present it with a drawing sheet on which the work is printed out. Note that the work shall conform to the specifications as noted in 6. Instructions for specifications below.

#### 4. Special instructions

- a. The task assignment will be distributed on the competition day.
- b. Setup and Adjustment of the CAD system will be done at the time specified by the organizer before the start of the competition.
- c. Registering figures or text into the CAD software before the start of the competition is prohibited.
- d. Contestants are not allowed to lend or borrow tools or data during the competition.
- e. Contestants shall notify the judge when you have completed the task.

#### <Note>

Contestants who need special assistive technology/device (hardware and software) shall notify the secretariat in advance. In principle, such contestants should bring it into the contest site during the orientation session and install/attach it in the presence of judges. No special consideration will be given if there is any trouble with installed/attached technology/device.

#### 5. Materials to be provided on site

- a. Two sheets of A3 printer sheet (There are no restrictions on setup and adjustment of the CAD system before the start of the competition).
- b. External storage device (including the data file containing the input borders and title block).

## 6 Instructions for specifications

- a. The submitted drawing shall be saved in the external storage device and output on a printer.
- b. The drawing to be submitted shall be printed out on A3 size paper.
- c. Draw the drawing to be submitted within the drawing borders of the file saved in the supplied external storage device.
- d. The drawing presentation shall comply with the ISO standard.
- e. Use the CAD software to draw the drawing to be submitted as a scale of 1/1, and when outputting the drawing on the printer, adjust the scale to 1/100.
- f. The drawing presentation shall be at a scale of 1/100.
- g. The drawing layout shall be done according to the provided task assignment.
- h. Reinforced concrete construction is to be used for the task building.
- i. When a dimension is not stated in the provided task assignment, use the grid (1 square = 500mm) to determine the dimension.
- j. Refer to the materials list for the structure dimensions.
- k. Refer to the fixtures list for a fixture dimensions.
- l. Enter your contestant number and name in the title block at the lower right of boarder.
- m. Up to three printouts are allowed during the competition including the printout of the drawing to be submitted.

## 7. Tools, etc., to be prepared on site

Item	Standard	Quantity	Note
Personal computer	Specification is shown separately.	1	
CAD software		1	AutoCAD (latest Version)
Printer	A3 paper output is possible.	1	Used in common by several contestants.
Office desk and chair		1	
Auxiliary desk		1	On which the necessary equipment can be set.
Writing instruments		Some	

8. Tools, etc., to be brought by each contestant

Item	Standard	Quantity	Note
Scale	Metric	Some	
Calculator		Some	

(Note) Contestants who wish to bring their own tools are requested to prepare a list of such tools and present it to the organizer for approval in advance. The organizer reserves the right not to allow the use of any tools that are considered to give the contestant an unfair advantage.

9. Evaluation criteria

- a. The contestant's skill is evaluated based on the submitted drawing printout.
- b. The score is to be determined by evaluating the details of each drawing first (object existence, relative position within the drawing, line shape, line thickness) and then the overall drawing (layout, character size, dimension line arrangement, etc.).

Items to be evaluated	Maximum marks allotted*
1 <sup>st</sup> floor plan	33.3
2 <sup>nd</sup> floor plan	31.6
Section	12.5
Exterior Elevation	12.6
Overall drawing	10.0
Total	100.0

\* Allocation of marks is subject to change.