Professional skills and personalities to build future!

International Skills Festival for All, Japan 2007

Spirit of International Skills Festival for All, Japan 2007

For the first time around the world, the International Skills Festival for All, Japan 2007 brings together the WorldSkills Competition and the International Abilympics.
Society for All is embodied in the International Skills Festival where you will find out and experience that professional skills contribute to the social economies and promise vocational lives to be joyful and valuable, and that we are the one who should render thanks to all and respect for full participation in society.

Symbol mark of "International Skills Festival for All, 2007"

The Symbol mark has a message 'creativity expanding infinitely'. It represented bouncing shape, and the shape means the sequence of the movements which are feeling, thinking and imaging when people make things.

SKILLS 2007

Official Mascots 'SKILLSON & WAZABEE'

They were born from our wishes for a success of the WorldSkills Competition and the International Abilympics under the banner "International Skills Festival for All, Japan 2007" and a good opportunity for international exchange among Japan and other countries. SKILLSON & WAZABEE will support the event friendly.

SKILLSON & WAZABEE

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WorldSkills Competition and International Abilympics

	39th WorldSkills Competition (WSC)	7th International Abilympics (IA)
Objectives	To raise the standards of vocational trainings and skills of each participating country by letting skilled youth coming from various countries and regions compete their skills internationally.	Through skills contests, demonstrations, exhibitions and international symposium, IA aims to elevate skills of persons with disabilities and raise awareness among the general public and employers regarding employment of persons with disabilities as well as to promote international exchange and friendship among participants.
Qualification for participation	Individuals who are 22 years old or younger (for some competitions, individuals who are 25 years old or younger)	Individuals with disabilities who are 15 years old or older
International organization	WorldSkills International (WSI)	International Abilympic Federation (IAF) Rehabilitation International (RI)
Official languages	English, German, French	English
Inaugural year	1950	1981
Event intervals	Once every two years (Odd numbered years)	Once every four years (In general)
WSC & IA hosted by Japan	1970: 19th WSC in Tokyo 1985: 28th WSC in Osaka	1981: 1st IA in Tokyo
Japanese competitors & contestants	High achievers in National Skills Festival (which is held the prior year). One individual or one group of individuals for each competition.	High achievers in the National Abilympics held in the previous 3 years. In general, maximum three contestants in each contest category.
ISF2007	39th WorldSkills Competition	7th International Abilympics
Number of expected competitors/contests	Approx. 800 competitors	Approx. 400 contestants
Number of expected participating countries/regions	Approx. 50	Approx. 40
Number of trades/categories	48	30
Duration of competition/contest	Approx. 22 hours	Maximum 6 hours

Host: Japan Organizing Committee for the ISF2007 (JOCISF 2007)
Chairman: Fujio Mitarai

Co-hosts: WorldSkills International (WSI) / International Abilympic Federation (IAF) / Rehabilitation International (RI) / Shizuoka Prefecture/ Shizuoka City / Numazu City

Skills competed in the 39th WorldSkills Competition

Official skills (38 Skill categories)

Skill categories implemented through determinations of the technical committee and the general assembly of the WorldSkills.

Polymechanics/Automation, Telecommunication Distribution Technology, Manufacturing Team Challenge, Mechatronics, Mech. Eng. CADD, CNC Turning, CNC Milling, IT/Software Applications, Welding, Printing, Wall & Floor Tiling, Autobody Repair, Metal Roofing, Plumbing, Industrial Electronics, Web Design, Electrical Installations, Industrial Control, Bricklaying, Stonemasonry, Painting & Decorating, Cabinetmaking, Joinery, Carpentry, Jewellery, Floristry, Ladies/Mens Hairdressing, Beauty Therapy, Ladies Dressmaking, Confectioner/Pastry Cook, Automobile Technology, Cooking, Restaurant Service, Car Painting, Landscape Gardening, Refrigeration, IT PC/Network Support, Graphic Design Technology

Demonstration skills (4 Skill categories)

Skill categories implemented through determinations of the technical committee and the general assembly of the WorldSkills. The implementation of these skill categories are based on suggestions from participating countries.

Caring, Mobile Robotics, Mould Making, Bakery

Host Member skills (5 Skill categories)

Skill categories suggested by the hosting country, and which can be implemented when five countries (other than the hosting country) show their will in participation. Host member skills are skill categories established for the "39th WorldSkills Competition".

Mechanical Device Control, Construction Metal Works, Pattern Making, Plastering, Sheet Metal Technology

Presentation skill (1 skill category)

This skill category is implemented by the will of the hosting country in the purpose of promoting the skill. This skill category is competed without the restriction of competition regulations.

Animating

Events jointly hosted

The following exhibitions and events will be hosted during the "39th WorldSkills Competition".

(1) "Japan Skills Village", held in Hall 9. This is where "skills" particular to the Japanese tradition are demonstrated, exhibited and can also be experienced.
(2) "Global Skills Village", held in Hall 2. This is where vocational trainings in the participating countries are introduced.
(3) "Sponsor Village", held in Hall 5. This is where skills, technologies and products of event sponsors are introduced.

WorldSkills Logo

The design shows a hand, as expressed by five strong lines of color representing the youth of all countries/regions, reaching out for new skills. The logo is incorporated as the Symbol Mark of each WorldSkills Competitions by placing the host city and year under the logo.

worldskills Shizuoka2007

Events in the 7th International Abilympics

< Skills Contests >

Date: November 15th (Thursday) - November 17th (Saturday)
Time: 9:00 - 16:00
Venue: Twin Messe Shizuoka (South Wing)

Vocational Skills Contest : 26 categories

15th CAD - Machinery, Creating Web Pages, Data Processing - Advanced Course, Dress Making - Basic Course, Electric Assembly and Testing, English Desktop Publishing, Floral Arrangement, Furniture Making - Advanced Course, Jewelry Making and Precision Sheet Metal Work
16th CAD - Architecture, Dress Making - Advanced Course, Electronic Circuit Connection Techniques, Furniture Making - Basic Course, Mechanical Assembly, PC Assembly, Photography and Poster Design
17th Artificial Limb Making, Basket Making, Computer Programming, Data Processing - Basic Course, Dental Techniques, English Text Processing, Tailoring and Wood Carving

Leisure and Living Skills Contests : 4 categories

15th Embroidery
16th Hand-knitting
17th Painting and Pottery

Leisure and Living Skills Contests : 4 categories

15th Embroidery
16th Hand-knitting
17th Painting and Pottery

< Demonstration & Exhibition >

Date: November 15th (Thursday) - November 17th (Saturday)
Time: 9:00 - 17:00
Venue: Twin Messe Shizuoka (North Wing)

Demonstration

Various unique skills (skill categories other than official contest categories) will be demonstrated by Japanese and overseas participants with disabilities.

Exhibition (IA 2007 Work Fair)

Japanese and overseas companies, NGOs and government organizations will introduce their initiatives and effective employment measures regarding disability employment as well as leading edge assistive technologies.
Various performances and attractions will also be prepared on the stage set up in the exhibition area.

< Satellite Exhibitions >

Date: November 15th (Thursday) - November 18th (Sunday)

Art Exhibition -1- "Discovering Brilliant Talent - Trial for Business"

Venue: Shizuoka Art Gallery
Time: 10:00 - 19:00

Art Exhibition -2- "Energy of Expression, Impact of Art Brut"

Venue: Granship (Exhibition Gallery on the 6F)
Time: 10:00 - 17:00

Poster Exhibition

Venue: Parche (Gallery on the 5F)
Time: 10:00 - 17:00 (Until 16:00 on the final day)
Original pictures and photos of the posters to publicize the "Month of Disability Employment Support" are exhibited.

< International Symposium >

Date: November 16th (Friday)
Time: 9:30 - 17:00
Venue: Twin Messe Shizuoka (Reception Hall and Conference Rooms)
Theme: **"Good Skills, Good Job, Realizing a Society for All"**

Plenary Session

Keynote speakers are Ms. Debra Perry of International Labor Organization, Mr. Don Crosby of McDonald's Corporation and Mr. Kazuto Ono of Canon Inc.

Parallel Sessions

Session 1: Enjoying My Working Life
Session 2: Supporting Disabled Workers
Session 3: International Abilympics: A Valuable Step in My Career
Official language will be English and Japanese with simultaneous interpretation. Sign Language interpretation in English and Japanese as well as Japanese captions on large screens will be prepared for all speeches.

< Performing Arts Festival >

Date: November 18th (Sunday)
Time: 13:00 - 14:45 (Granship)
Under the theme of "Arts, Cultures and International Exchanges", traditional art, entertainment and music by Japanese and overseas artists with and without disabilities will be introduced on the stage.

Symbol for the International Abilympic

The symbol for the Abilympic was designed by artist Taro Okamoto.
The laurel wreath of victory encircling the human figure symbolizes the strength and determination of the human spirit in overcoming disabilities.
This Mark will be the Symbol for the Abilympics with host country and year.

IA2007
Shizuoka, Japan

Schedule

Opening Ceremony & Welcome Reception

Date: November 14(Wed),2007 16:00-
Venue: Granship Shizuoka Convention and Arts Center (Shizuoka City)

39th WorldSkills Competition

Competition
Period : November 15 (Thu) - 18 (Sun) , 2007
Venue : Kadoike, Numazu City
Closing Ceremony
Date : November 21 (Wed) ,2007 15:00-
Venue : Kira Messe Numazu (Numazu)

7th International Abilympics

Skills Contests, Demonstration & ExhibitionCompetition
Period: November 15 (Thu) -17 (Sat) , 2007
Venue: Twin-Messe, Shizuoka
Closing Ceremony
Date : November 18(Sat),2007 15:00-
Venue : Granship Shizuoka Convention and Arts Center (Shizuoka City)

Official License Products·Commemorative Stamps

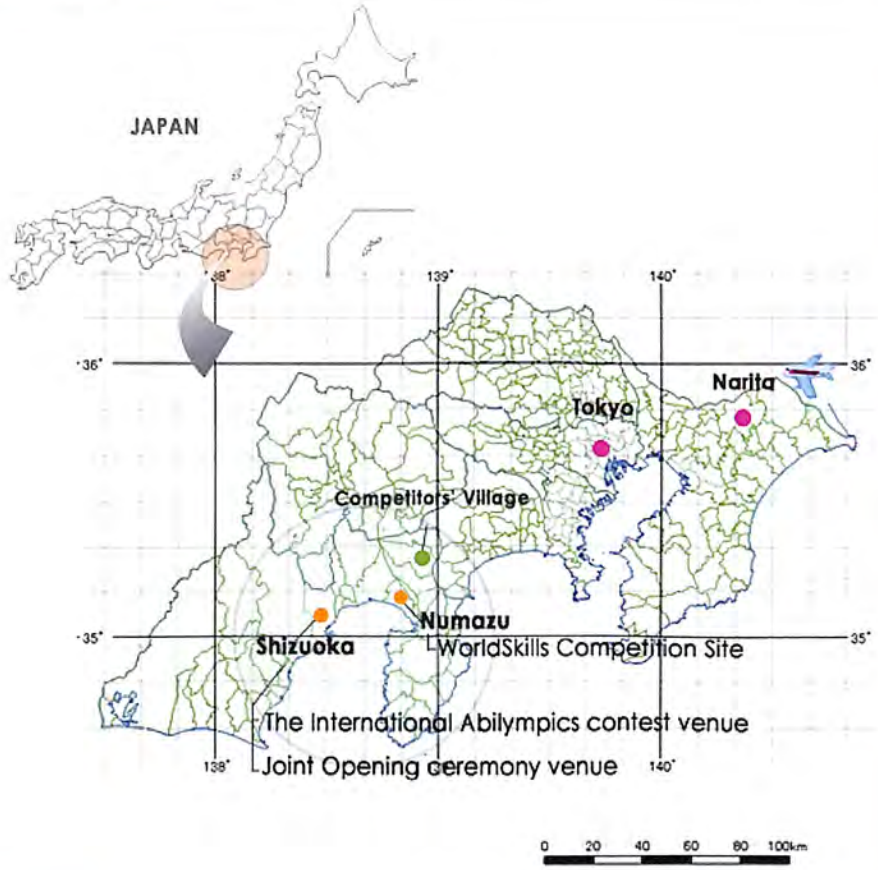
Official License Products

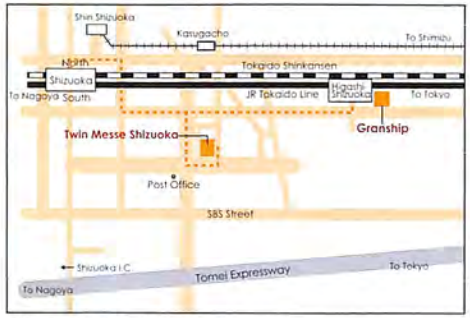
Official License Products are being sold
There are varieties of goods,
for example, stuffed mascots, cell phone straps,
and cookies marked with the Symbol Mark or
mascots of the Competition, etc.
(There will be products original to
Shizuoka and Japan as well),
Opening hours: 15-17 November
Work skills competition site
Location: Hall 5
Opening hours: 15-18 November
09:00-17:00
The International Abilympics's site
Location: Twin Messe Shizuoka
Promenade.
09:00 -17:00

Commemorative Stamps

Commemorative stamps are being issued to celebrate this Competition. The design describes the excellence of skills of the WorldSkills Competition and International Abilympics.
One sheet includes 10 stamps and the price of one stamp is 80yen.
Work skills competition site
Location: Post Office in Hall 5
The International Abilympics's site
Location: Twin Messe Shizuoka Promenade.

Transportation

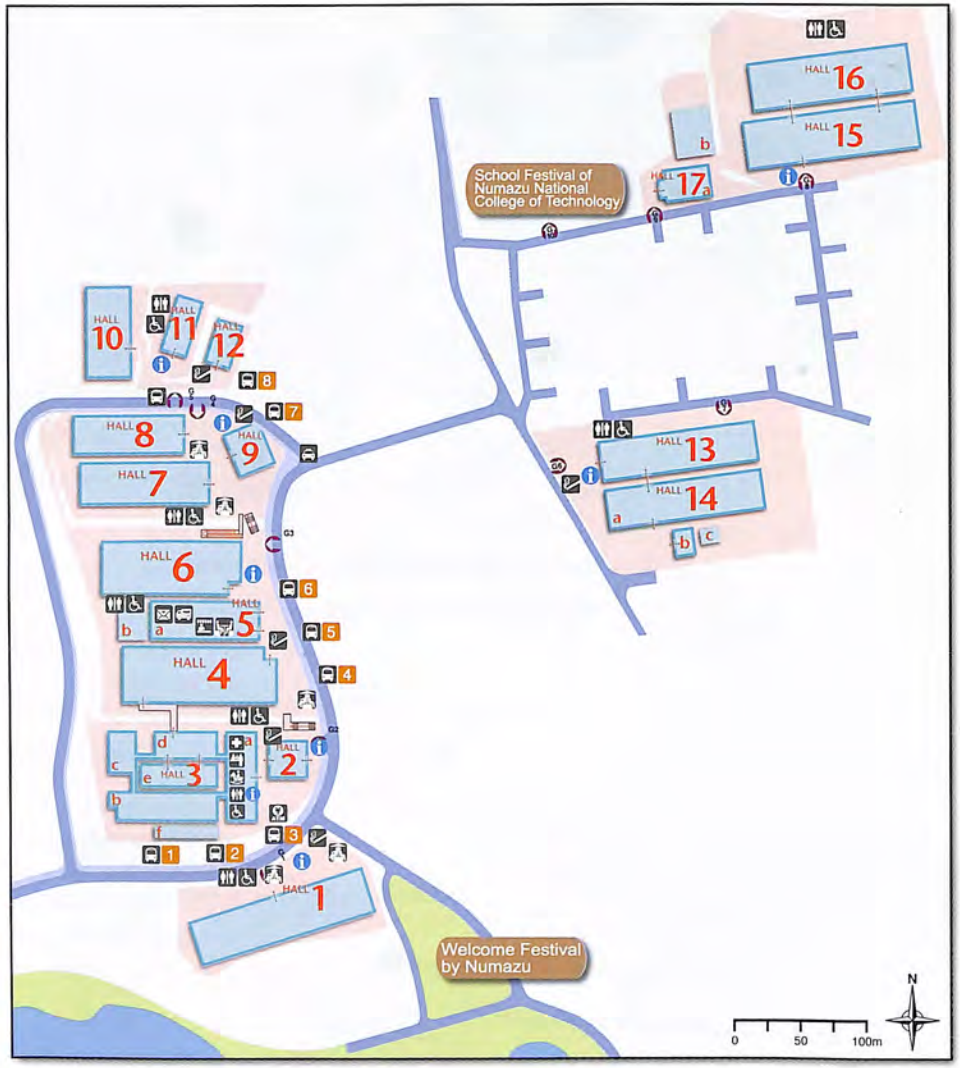




Shizuoka Station (North exit)·
Higashi Shizuoka Station (South exit)
First bus 8:30 Last bus 15:30
Competition site
First bus 10:00 Last bus 17:15

Numazu Station (North exit)·
EMishima Station (North exit)
First bus 8:30 Last bus 15:30
Competition site
First bus 10:00 Last bus 17:15 (11/18 16:15)

39th WorldSkills Venues



HALL	Skill No.	Skills
HALL1	13	Autobody Repair
	33	Automobile Technology
	36	Car Painting
HALL3b	02	Telecommunication
		Distribution Technology
	04	Mechatronics
	39	IT PC/Network Support
HALL3d	05	Mech. Eng. CADD
HALL4	01	Polymechanics / Automation
	03	Manufacturing Team Challenge
	06	CNC Turning
	07	CNC Milling
	11	Printing
	10	Welding
HALL6	D3	Mould Making
	HM1	Mechanical Device Control
	HM2	Construction Metal Works
	HM3	Pattern Making
	HM5	Sheet Metal Technology
HALL7	32	Confectioner/Pastry Cook
	34	Cooking
	35	Restaurant Service
	D4	Bakery
HALL8	15	Plumbing
	38	Refrigeration

HALL	Skill No.	Skills
HALL9	P	Animator
HALL10	12	Wall & Floor Tiling
	20	Bricklaying
HALL11	09	IT/Software Applications
	17	Web Design
HALL12	16	Industrial Electronics
HALL13	27	Jewellery
	29	Ladies/Mens Hairdressing
	30	Beauty Therapy
	31	Ladies Dressmaking
	D1	Caring
HALL14a	28	Floristry
	37	Landscape Gardening
HALL14b	21	Stonemasonry
HALL15	14	Metal Roofing
	24	Cabinetmaking
	25	Joinery
	26	Carpentry
	HM4	Plastering
HALL16	18	Electrical Installations
	19	Industrial Control
	22	Painting & Decorating
	40	Graphic Design Technology
HALL17a	D2	Mobile Robotics

HALL2 Global Skills Village
HALL5 Event Sponsor Village

HALL9 Japan Skills Villge

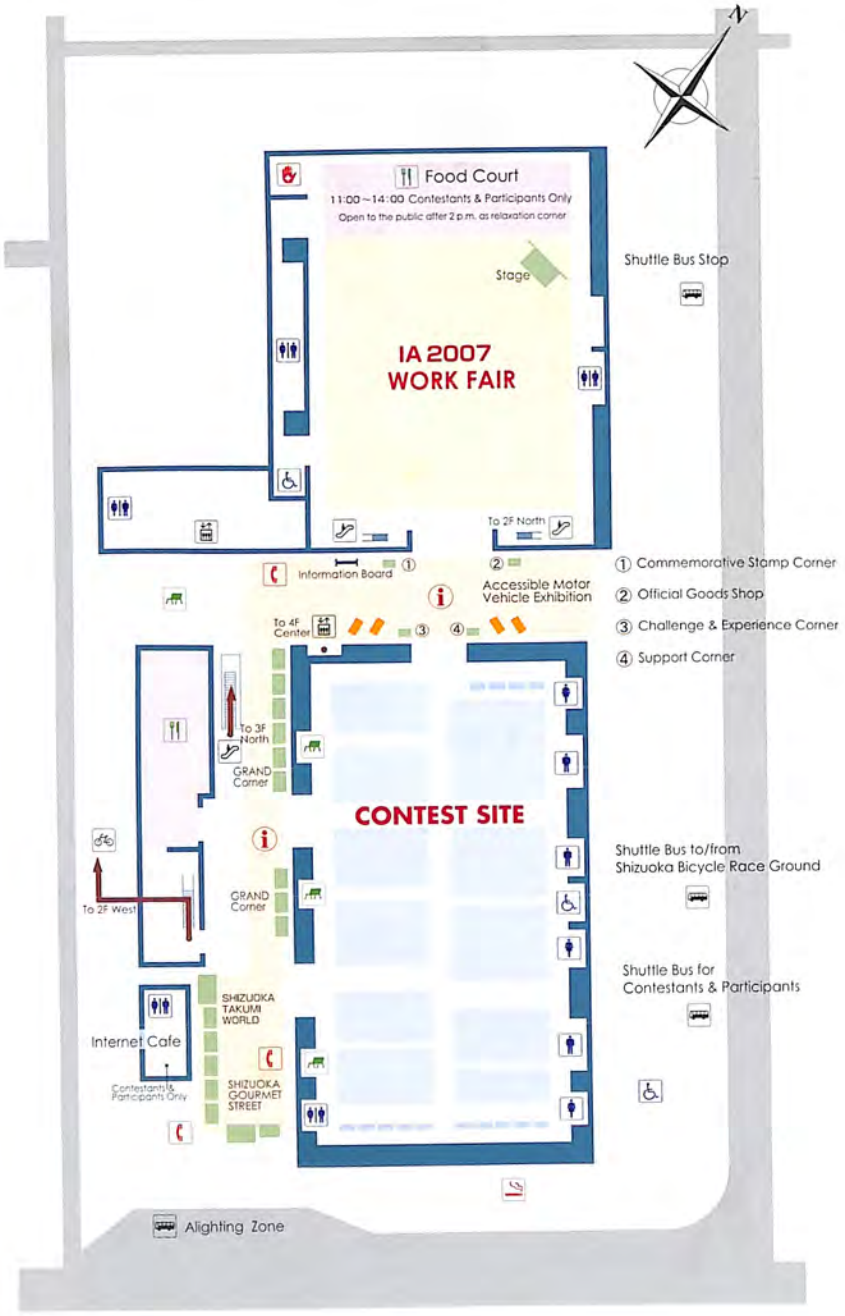
Site Information

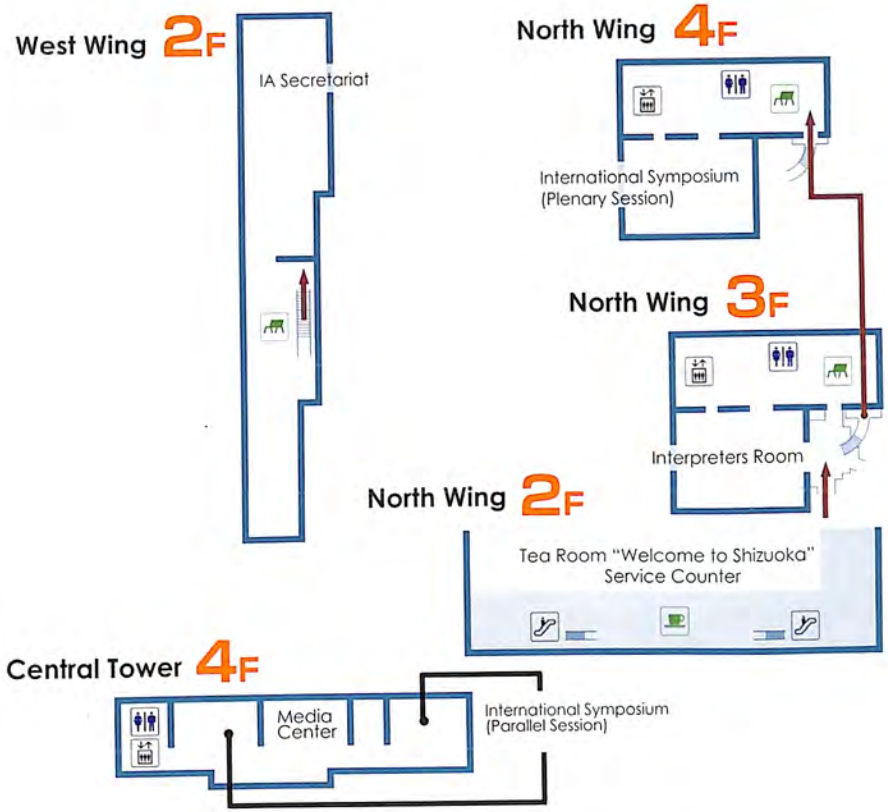
- Information
- Money Exchange・Service Desk
- Day Nursery
- Visitor Lounge (Indoors)
- Rest Area (Outdoors)
- Post Office
- ATM (Automatic Teller Machine)
- Medical Center
- Rest Room
- Smoking Area

Transportation

- Free Shuttle Bus Stop
- 1 Mishima Station (north exit)
- 2 Numazu Station (north exit)
- 3 To Parking lot
- 4 To Parking lot
- 5 To Parking lot
- 6 To Parking lot
- 7 International Abilympics Competition Site
- 8 Numazu Gourmet Street
- Taxi

Floor Plan





- Information
- First-Aid Station
- Telephone
- Smoking Area
- Accessible Toilet
- Rest Room
- Rest Room
- Rest Room
- Relaxation Corner
- Food Corner
- Coffee & Tea Corner
- Elevator
- Escalator
- Shuttle Bus Stop
- Parking Area
- Bicycle Parking Area

Participants

country	competitors
United Arab Emirates	12
Austria	28
Australia	27
Belgium	18
Brazil	24
Canada	29
Switzerland	40
Germany	28
Denmark	12
Ecuador	3
Estonia	4
Spain	8
Finland	45
France	43
Hong Kong SAR	14
Croatia	4
Hungary	4
Iceland	1
Indonesia	23
Ireland	26
India	5
Iran	15
South Tyrol, Italy	18
Jamaica	4
Japan	51
Korea	47
Principality of Liechtenstein	7
Luxembourg	5
Morocco	4
Macau SAR	10
Mexico	7
Malaysia	15
Netherlands	26
Norway	25
New Zealand	14
Portugal	16
Saudi Arabia	5
Sweden	32
Singapore	16
Thailand	17
Tunisia	5
Chinese Taipei	44
United Kingdom	22
United States of America	6
Vietnam	8
South Africa	6
Total	**823**

NO	skill	competitors
Official skills (38)		
1	Polymechanics/Automation	13
2	Telecommunication Distribution Technology	8
3	Manufacturing Team Challenge	21
4	Mechatronics	54
5	Mech. Eng. CADD	22
6	CNC Turning	17
7	CNC Milling	21
9	IT/ Software Applications	19
10	Welding	27
11	Printing	9
12	Wall & Floor Tiling	18
13	Autobody Repair	17
14	Metal Roofing	9
15	Plumbing	23
16	Industrial Electronics	15
17	Web Design	19
18	Electrical Installations	29
19	Industrial Control	23
20	Bricklaying	24
21	Stonemasonry	11
22	Painting & Decorating	14
24	Cabinetmaking	22
25	Joinery	19
26	Carpentry	10
27	Jewellery	15
28	Floristry	16
29	Ladies / Mens Hairdressing	22
30	Beauty Therapy	13
31	Ladies Dressmaking	13
32	Confectioner / Pastry Cook	15
33	Automobile Technology	24
34	Cooking	24
35	Restaurant Service	21
36	Car Painting	18
37	Landscape Gardening	30
38	Refrigeration	21
39	IT PC/Network Support	21
40	Graphic Design Technology	22
Demonstration skills (4)		
D1	Caring	12
D2	Mobile Robotics	24
D3	Mould Making	8
D4	Bakery	7
Host Member skills (5)		
HM1	Mechanical Device Control	5
HM2	Construction Metal Works	8
HM3	Pattern Making	7
HM4	Plastering	6
HM5	Sheet Metal Technology	7
	Total	**823**

01 Polymechanics/Automation — Nov.15-18 — HALL4

Polymechanics technicians carry out technical repair and maintenance work in production plants. Using machining tools, polymechanics skilled people can produce and install parts of production machinery and equipment. The test project requires multi-skills in precision metal work and logic and automation control: reading drawings, making plans of work, machining (tuning, milling and drilling), fitting by hand files, electrical and circuitry work, installing hydraulic and pneumatic components, programming and controlling and finally proper functioning.

02 Telecommunication Distribution Technology — Nov.15-18 — HALL3b

Manifold network systems exist in our society and we receive benefits of first and reliable telecommunications networks. The infrastructures of the networks are maintained by competitors' craftsmanship. The test project requires entire date cabling process from the telecommunications operator to the computer at home or in the office: connection of different types of cables to other cables in interfaces; cable termination in interface panels of boxes - for example, connecting two optical fibres to each other through welding or the termination of an optical fibre in an optical fibre panel.

03 Manufacturing Team Challenge — Nov.15-18 — HALL4

MTC covers designing and manufacturing equipment assembles. Each team has three members who are issued with a project specification one year prior to the competition. The team will then design their individual assemblies in advance and build them during the competition. At the beginning of the competition, teams are given another surprise task. Comprehensive project documentation must also be produced.
Competitors demonstrate innovative thinking, multi-disciplinary skills and team works. The test project requires multi-skilled professionalism which covers manual and computer aided machining, welding, installing and assembling, automation and electronics.

04 Mechatronics — Nov.15-18 — HALL3b

Mechatronics is concerned with Mechanics, Electronics and Informatics. Each team in two members competes and the test project requires to install, to set up, to repair and to adjust machine components, and to manage equipment control systems including programming.

Mechatronics applications include industrial multi-product packing lines, labeling machines for tinned products, lifting and transport machinery and automatic assembly and measuring equipment in the electronics industry.

05 Mechanical Engineering CADD

Nov.15-18 | HALL3d

The test projects demand to gather information from a technical drawing of industrial machine components or examining real components shown to draw 3D models and to produce 2D technical drawing necessary for production purposes. Competitors are required to figure out the image of the components, to calculate the precise scales, to operate CAD, to have technical knowledge of the mechanical drawings and to make it easier to understand.

06 CNC Turning

Nov.15-18 | HALL4

CNC Turning is a process used to produce cylindrical components through metal cutting using computer numerically controlled (CNC) lathes. The lathe is machine for holding and turning materials while they are being shaped.

From a technical drawing, the competitors judge the work process and program the software controlled machine and set the needed cutting tools to fabricate metal piece to accuracy of 0.01mm. (This is a human hair split approximately 8 times). CNC machining is suitable for mass production of components with complex shape. The final products are used for automotive, tool and die, aviation, and in the aerospace industries.

07 CNC Milling

Nov.15-18 | HALL4

CNC Milling covers the processing of work-pieces through metal cutting with computer Numerical Control (CNC) milling machines. The milling is machine for holding and tuning cutting tools while materials are shaped. From a technical drawing, the competitors judge the work process and program the software controlled machine and set the needed cutting tools. The program controls over the angle of cutting tools and moves the location of metal piece precisely backward and forward, ups and downs.

CNC machine operator must acquire sensibilities to judge what occurs, why caused and how well do it by his/her human senses, seeing, smelling, hearing, touching.

09 IT/Software Applications

Nov.15-18 | HALL11

The test projects require word processing needed in our daily office work. Word processing covers planning, creating and editing documents according to an agreed standard, linking date from spreadsheets and databases and editing graphics to fit the documents. The skill competes how fast and accurate, and how well and easy to understand.

10 Welding

Nov.15-18 | HALL6

Welders are craftsmen and women who need hands-on skills to do a professional job. Different welding processes are required with different materials. The competition involves the joining of metals such as stainless steel, aluminum, low carbon steel. Welders must be able to understand welding drawings, standards and markings, apply the required welding processes and understand the characteristics of the materials. Knowledge of welding work safety is also be required.

11 Printing

Nov.15-18 | HALL4

Competitors operate offset duplicator and produce printed materials.

The offset duplicator is the machine that, by the characteristics of water and oil, makes ink adhered on the flat and removed to rubber plate and produce printings.

The test projects requires the skills:to know the features of paper and inks, to adjust the paper feeding of the machine, to set up color flow to the image etc,.

Printing mechanists perform all the above tasks in both small business andlarge manufacturing settings.

12 Wall and Floor Tiling

Nov.15-18 | HALL10

Competencies covered may include hands on skills to use wall and floor tiling tolls and equipment, to fix floor tiles and wall tiles, and to carry out decorative tiling, to tile domestic pools and spas, and to carry out concreting to simple form.

Expression of the designs assigned by specifications and beautiful joint lines are to be observed.

13 Autobody repair

Nov.15-18 | HALL1

Autobody Repairers restore bodywork damage, mainly caused by road accidents. In the automotive industry, the skill is required to produce test car before mass production.

Competitors use panel repairing equipment, and bodywork realignment and measuring devices. Welding skills are an essential part of bodywork repair, and a professional repairer will be able to use several techniques.

14 Metal Roofing

Nov.15-18 | HALL15

Roofing is an area of craftsmanship that goes back hundreds of year. It was mentioned in history books as early as in 970 BC. Even today, roofers are skilled professionals whose works are very demanding; require a long period of training. However, the materials, methods and tools have changed so much that well built steel roof will now last approximately 50 years.

Roofers build and install roofs, walls, furring, guttering, and roof safety construction sites. Roofers need to know about raw materials, mathematics and spreading metal.

15 Plumbing

Nov.15-18 | HALL8

Plumbers install water, drainage and heating pips for houses and industrial sites. The task can include gas and compressed air pipe installations. Pipes are welded, soft-soldered, hard-soldered, threaded and joined with different fixings. Machine crimping is also used.
Pipe bending also requires several techniques. The bending radius and angles are measured.

16 Industrial Electronics

Nov.15-18 | HALL12

The skill involves manufacturing, testing and troubleshooting electronic equipment. Skilled technicians are able to build equipment and systems for electronics and other special applications. They use the required hand tools, solders and measuring devices and computers. Computers and embedded systems play a central role in this skill area since electronics devices are mainly built with the aid of programmed system.

17 Web design

Nov.15-18 | HALL11

Web designers use computer programming to produce pages which include links to other pages, graphical elements, text and photographs. The layout of these elements can be presented as a script or drawings on paper. Computer software is used for technical implementation. Creative skills are needed to when designing the colors, fonts and graphics and the layout on a site.
Compatibility of the end product with standard browsers and software/hardware combinations is important.

18 Electrical Installations

Nov.15-18 | HALL16

Electrical installers manufacture, maintain and repair electrical equipment for houses, industrial sites and power stations. Their work involves electrical distribution devices such as switchboards, cables and cable routes and different safety devices such as fuses, thermal relays and fault current protection switches.
Electrical installers must adhere to safe working practice without endangering themselves or others.

19 Industrial Control

Nov.15-18 | HALL16

The requirements for industrial control cover elements from electrical installation and automation installation, although the requirements are learning more and more towards automation installation.
The category requirements include the basics of electrical and automation installation:
-Install conduits, cables, devices, instruments, automated devices and control centre fittings quickly and safely,
-implement the assemblies safely
-design circuits and parameters, and program and implement frequency transformers and programmable logic.
-troubleshooting for relay control and logic programs.

20 Bricklaying

Nov.15-18 | HALL10

Bricklayers work on commercial and residential projects where they lay bricks, block stone, glass block or terra cotta to build interior and exterior walls, partitions, fireplaces, chimneys, smokestacks and other structures.
To become a successful bricklayer requires endurance, concentration, planning and scheduling, varied hands-on skills, competent bricklaying, an eye for detail, and tidiness.

21 Stonemasonry

Nov.15-18 | HALL14b

The curving of stone is an ancient art. The artisan must read the material, master the tools and have an eye for design. Today's stone masons use a variety of power tools and hand tools to create objects that can stand the test of time.

22 Painting & Decorating

Nov.15-18 | HALL16

The professional painter's skills involve indoor and outdoor painting of domestic and commercial buildings. Painters must be able to handle a variety of jobs and to plan their work so that one phase leads on to another without unnecessary delays from drying materials etc.
They need drawing and planning skills and an eye for color and shapes. Painters should know the characteristics of the materials they use and choose the best tools for the job.

24 Cabinetmaking

Nov.15-18 | HALL15

Cabinet makers specialize in work with wood and other construction materials to fabricate useful and decorative items.
Cabinetmakers are able to:
-identify various types of wood and composite materials
-safely operate hand and power tools
-use woodworking machines and perform detailed milling
-construct staircases, sashes, doors, molding, furniture and cabinets
-execute specially work involving bends and curves

25 Joinery

Nov.15-18 | HALL15

Joinery is the process of connecting or jointing two pieces of wood together through the use of various forms of wood joints. In fine woodworking, common forms of joinery include dovetail joinery, mortise-and-tenon joinery, biscuit joinery, lap joint, spline joints, etc.
Joiners construct doors and windows including frames. Traditional craft methods are used, although there is a variety of woodcutting machines used in joinery.

26 Carpentry

Nov.15-18 | HALL15

Carpenters must have expertise in a wide variety of skills that are needed in commercial construction as well as in residential building and structural maintenance.
The competition will proceed with:
-drawings of real dimensions
-marking on members
-cutting members of wood
-assembling

27 Jewellery

Nov.15-18 | HALL13

The test project requires to craft pendant (mount) using plate and wire of gold (K18).
Reading the drawing of the design, competitors work to cut out the precious metals economically whilst maintaining quality.
Sensitivity to seek beauty and fine skill works are required.

28 Floristry

Nov.15-18 | HALL14

Floristry or flower arranging is the art of creating bouquets and compositions from flowers, foliages, herbs, ornamental grasses and other botanical materials into floral design. A person who designs flower arrangements is known as a florist. Florists usually work in flower shops. A good florist can fulfill even the most demanding customer's wishes and values customers satisfaction above all.

29 Ladies/Men's Hairdressing

Nov.15-18 | HALL13

Important aspects of Hairdressing include correct cutting techniques, curling, coloring and barbering. Hairdressers must demonstrate creativity, imagination and technical ability combined with commercial awareness. Hairdressers need to demonstrate an understanding of fashion trends and new developments in their trade. Professional conduct is also very important.
Professional hairdressers may work as barbers, hairdressers, teachers or product consultants.

30 Beauty Therapy

Nov.15-18 | HALL13

Beauty therapists are a specialist in skincare, skincare advice, massage and makeup. They often work together with fashion, media, hairdressing and healthcare professionals.
They are able to deal with physical stress, particularly on the body's locomotive system. A positive attitude towards new technology and its applications is important.

31 Ladies Dressmaking

Nov.15-18 | HALL13

Ladies' dressmakers are technically skilled garment producers who are efficient, can handle different garments and are skilled in needlecraft.
A ladies' dressmaker produces quality tailored garments from occasional to leisurewear. Dressmakers understand the importance of different body shapes and clothing etiquette in garment production. They are able to produce challenging patterns and garments with excellent craftsmanship, and while using machines and equipment.

32 Confectioner/Pastry Cook

Nov.15-18 | HALL7

Confectioners need artistic flair and talent. They must be able to work economically and use their initiative, not forgetting the quality of products, ergonomics, and health and satefty regulations. They make, present and decorate layer cakes, pastries, biscuits, chocolates, sugar and marzipan sweets.

33 Automobile Technology

Nov.15-18 | HALL1

Technicians are able to understand he functioning of seven important the Car systems:
-diesel engine systems
-Handling systems
-Electrical systems
-Petrol engine systems
-Transmission and gear system
-Mechanical repair of the motor
-Chassis and steering systems

34 Cooking

Nov.15-18 | HALL7

The cooks are responsible for preparing meals that are both appealing and nutritious. They are also responsible for food costing and safety and sanitation. In this sense in the competition, the inside of refrigerators will be inspected by examiners (experts) for marking purposes.

35 Restaurant Service

Nov.15-18 | HALL7

Restaurant service requires excellent skills in areas such as:
-Serving food and drinks
-mixing international drinks and working behind the bar
-preparing food in front of customers, e.g. carving or flamb-ing
-serving wine
-identifying alcoholic drinks
-folding napkins

36 Car Painting

Nov.15-18 | HALL1

Car painters remove, mark out and replace vehicle body parts, prepare vehicle surfaces, treat the vehicle with protection chemicals, apply prime coats and remove rust. They use workshop tools such as sending machines and know different sanding techniques and materials, fillers primers and rust proofing chemicals and insulating, sanding and filling paints.

37 Landscape gardening

Nov.15-18 | HALL14

Two in one team compete in:
-hauling and spreading topsoil, corresponding with landscape drawing
-constructing walkways, fences, decks etc.,
-laying trees, flowers and grasses
They are also familiar with building elements such as concrete slabs, natural stone, walls, steps, wooden structures, water structures and bedding.

38 Refrigeration

Nov.15-18 | HALL8

Refrigeration technicians install several components which form the refrigeration system. This includes soldering pipes and the safe handling of refrigerants without causing danger to the environment. They are skilled in electronics and understand airflow techniques. A good result requires creative thinking.

39 IT-PC and Network Support

Nov.15-18 | HALL3b

The competitors assemble PC with accessories and network devices for home and business environments, and install operation system (OS) and configure wireless network devices, switches, routers and data protection devices to implement business IT systems with servers, workstations and network devices. This is a fast-moving trade with continuously rising skill levels.

40 Graphic Design

Nov.15-18 | HALL16

Graphical designers work in advertising agencies, corporate advertising departments, reproduction plants or printers. Two-dimensional objects may involve any kind of printed material. Planning three-dimensional objects involves technical design and creating a visual image of the object (such as packaging). Skills include producing ideas, creating layouts, digital editing, typography, producing graphics, typesetting, printing and presenting the final product.

D1 Caring

Nov.15-18 | HALL13

Caring covers a broad range of abilities and activities dealing with social care, support of growth and development, caring and rehabilitation as follows:
-supporting growth and development in client based activities in assessment, planning, implementation and evaluation
-providing caring and rehabilitation of clients across the lifespan in a variety of health care settings
-demonstrating knowledge, management and competence of requisite skills to support growth and development; caring and rehabilitation
-Applying ethics, ergonomic, equality, safety and environmental regulations
-evaluating own working processes and receiving feedback from the clients/relevant sources

D2 Mobile Robotics

Nov.15-18 | HALL17a

The competitors are able to assemble, set-up, manage and maintainmechanical systems within a mobile robot as well as install, operate and trouble shoot mobile robot control systems.

D3 Mould Making

Nov.15-18 | HALL6

From a drawing or a sketch, the Mould Maker then designs and fabricate Metalmobile phone covers. The competitors use milling machine, grinding machine, a set of files to fabricate metals to tolerance 0.01mm or more.

D4 Bakery

Nov.15-18 | HALL7

Bakers have expert skills and different methods of production in making bread and pastry. These skills include the making of bread, small breads, sweet yeast pastry, laminated sweet yeast pastry, artistic pieces made with bread dough and specialties.

HM1 Mechanical Device Control

Nov.15-18 | HALL6

A mechanical device controller's work covers the manufacture and assembly of components by hand, to obtain electrical and pneumatic devices of high precision and with the corresponding surface finish.
The machine to make machine is called "mother machine." The mother machine and precision measurement tools are produced by hands-on skills.

HM2 Construction Metal Works — Nov.15-18 — HALL6

Construction Metal Works covers the construction of steel structures, their erection, assembly, maintenance and repair and general steel fabrications. Main areas are general steel work, fabrication work, shipbuilding, metal fitting for houses and construction of cranes.

HM3 Pattern Making — Nov.15-18 — HALL15

Pattern making covers the manufacturing, according to drawings, of models and/or foundry patterns and /or parts of them. Projects or part of projects can be done using CAD-CAM System. High accuracy and good appearance are competed.

HM4 Plastering — Nov.15-18 — HALL6

The plaster work is to provide durability and decoration with the building.
This includes in particular: the realization of works in plasterboard (gypsum plasterboard), the processing of molded decoration with prefabricated elements and interior coatings which may be stained or not, smooth or with texture.

HM5 Sheet Metal Technology — Nov.15-18 — HALL6

Sheet-construction technicians produce components for paper machines, ships, pressure containers and pipes. The competitors interpret the drawings to find out the product shape and measurements. They then mark out the shape on sheets and cut the components. Sheets are shaped with a bending machine or hammering by hand. Sheet components and profile steel are assembled using TIG and MIG welding.

P Animator — Nov.15-18 — HALL9

Animator works on motioning characters in the process of animations.
The competitors are required to interpret the context of the scenario and to give the character appropriate motion. Expression skills and speedy work are required.

(Presentation only)

Participating countries/regions

country/region	competitors
Australia	5
Austria	21
China	32
Chinese Taipei	19
Croatia	2
Czech Republic	24
Ecuador	1
Finland	4
Ghana	5
Hong Kong SAR	28
India	31
Indonesia	15
Japan	82
Kenya	3
Korea	27
Lebanon	2
Malaysia	7
Nepal	2
Pakistan	6
Philippines	11
Rwanda	1
Singapore	14
Slovakia	20
Sri lanka	6
Sudan	2
Thailand	15
Uganda	1
Ukraine	1
United Arab Emirates	15
Total	**402**

NO	Skill Categories	Skills Contests
Vocational Skills Contests		
V1.	Artificial Limb Making	7
V2.	Basket Making	11
V3.	CAD - Architecture	10
V4.	CAD - Machinery	11
V5.	Computer Programming	9
V6.	Creating Web Pages	16
V7.	Data Processing - Advanced Course	8
V8.	Data Processing - Basic Course	10
V9.	Dental Techniques	5
V10.	Dress Making - Advanced Course	18
V11.	Dress Making - Basic Course	16
V12.	Electronic Assembly and Testing	15
V13.	Electronic Circuit Connection Techniques	9
V14.	English Desktop Publishing	11
V15.	English Text Processing	13
V16.	Floral Arrangement	24
V17.	Furniture Making Advanced Course	8
V18.	Furniture Making Basic Course	7
V19.	Jewelry Making	9
V20.	Mechanical Assembly	9
V21.	PC Assembly	14
V22.	Photography	28
V23.	Poster Design	17
V24.	Precision Sheet Metal Work	6
V25.	Tailoring	13
V26.	Wood Carving	18
Leisure and Living Skills Contests		
L1.	Embroidery	15
L2.	Hand-knitting	21
L3.	Painting	27
L4.	Pottery	17
	Total	**402**

Vocational Skills Cotests	day	Allocated Time(h)

V1 Artificial Limb Making — Nov. 17 — 9:00-14:45

Producing a socket for the artificial lower limb according to given specifications.
The socket must fit a standard plaster model of a leg.

V2 Basket Making — Nov. 17 — 9:00-15:00

Fabricating a basket in a stipulated size and shape, using hard-weave materials such as cane and bamboo.

V3 CAD –Architecture — Nov. 16 — 9:00-12:00

Using the CAD system to draw a ground plan from an architectural sketch.

V4 CAD – Machinery — Nov. 15 — 9:00-14:30

Picking out specified parts from machinery drawings, and re-drawing the parts using the CAD system.

V5 Computer Programming — Nov. 17 — 9:00-16:00

Writing a program to operate a commercial general-purpose robot arm. Please refer to the following webpage:
http://www.sanki-mhi.co.jp/RJengHPe/products/pa10.html
Requested operation will include making a robot arm write specified graphics and drawings. The software to be used will be Visual Studio version 6 and 2005, standard edition. You can use either of them.

V6 Creating Web Pages — Nov. 15 — 9:00-12:00

Creating user-friendly web pages including various information and functions based on provided data.

V7 Data Processing – Advanced Course — Nov. 15 — 9:00-12:00

Making tables, inserting, extracting, revising and deleting specified data, designing data input screens and inputting data, printing reports, analyzing data, making menu screens, etc. The software to be used will include Microsoft Access, etc.

V8 Data Processing – Basic Course — Nov. 17 — 9:00-11:00

Inputting a series of data, e.g. figures on sales slips, a list of addresses, etc.

V9 Dental Techniques — Nov. 17 — 9:00-15:00

Fabricating artificial teeth according to given instructions.

V10 Dress Making – Advanced Course — Nov. 16 — 9:00-16:00

Making full use of professional expertise to fabricate a woman' s dress using the provided material and patterns.

V11 Dress Making – Basic Course — Nov. 15 — 9:00-14:00

Using basic dressmaking skills to fabricate a simple garment such as an apron, according to a given design.

V12 Electronic Assembly and Testing — Nov. 15 — 9:00-11:00

Assembling an electronic equipment from a given, schematics, pin assignments, chassis and circuit board drawings, using provided components, and testing the functions of a completed equipment.

V13 Electronic Circuit Connection Techniques

Nov. 16 | 9:00-12:00

Using provided components to connect electronic circuits according to the given specifications. Skills to be tested include soldering, crimping connections, insulation displacement connection (IDC), wire wrapping, etc.

V14 English Desktop Publishing

Nov. 15 | 9:00-12:00

Creating and designing an eye-catching color document to be printed out according to given instructions by using standard DTP techniques.

V15 English Text Processing

Nov. 17 | 9:00-10:15

Typing a document according to a given sample. Software to be used will be Windows MS-Word. Skills to be tested include: how to choose font, alignment, how to use WordArt, header/footer, how to insert and format images/tables, etc.

V16 Floral Arrangement

Nov. 15 | 9:00-12:15

Creating an arrangement for given theme/occasion/ purposes. Contestants will be able to choose flowers, plants and/or accessories.

V17 Furniture Making

Nov. 15 | 9:00-16:00

Fabricating wooden parts according to a given drawing and specifications, and assembling them a piece of furniture as shown in the drawing.

V18 Furniture Making – Basic Course

Nov. 16 | 9:00-16:00

Using basic woodwork skills to fabricate a wooden product according to a given drawing and specifications, using provided materials.

V19 Jewelry Making

Nov. 15 | 9:00-15:00

Using provided material to fabricate a hand-made piece of jewelry setting according to a sample and drawing. Required skills include molding, filing, curving, cutting, melting, annealing, polishing, brazing, etc.

V20 Mechanical Assembly

Nov. 16 | 9:00-12:00

Partialy disassembling a provided bicycle (mountain bike), then re-assembling it according to given instructions and making adjustments to make it run properly.

V21 PC Assembly

Nov. 16 | 9:00-14:00

Assembling a personal desktop computer according to specifications using provided components to make it run on the installed Windows XP.

V22 Photography

Nov. 16 | 9:00-16:00

Taking photos of people, nature, buildings, etc. on a given theme. Contestants will use their own degital camera.

V23 Poster Design

Nov. 16 | 9:00-16:00

Using a computer to design a poster in color on a given theme, adding catchwords/slogans on a set theme.

V24 Precision Sheet Metal Work

Nov. 15 | 9:00-12:30

Fabricating 2 parts using steel sheets (SPCC: mild steel sheet) and assembling them according to a provided drawing and specifications.

V25 Tailoring — Nov. 17 — 9:00-16:00

Using provided materials to fabricate an order-made man's outfit with linings, according to given instructions.

V26 Wood Carving — Nov. 17 — 9:00-15:00

Making a wood carving according to a given design from a provided flat wooden plate.

Leisure and Living Skills Contests — day — Allocated Time(h)

L1 Embroidery — Nov. 15 — 9:00-16:00

Hand-embroidering patterns to a given theme on a piece of cloth using various styles of embroidery stitch.

L2 Hand-knitting — Nov. 16 — 9:00-16:00

Hand-knitting a woolen article in accordance with given specifications.

L3 Painting — Nov. 17 — 9:00-16:00

Painting a watercolor picture(s) on a given theme.

L4 Pottery — Nov. 17 — 9:00-16:00

Designing and fabricating a hand-made ceramic ware for daily use.

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