

10th INTERNATIONAL ABILYMPICS
Technical description

Departement	Skills Contest	Summary of the contest	Running of the contest	Main skills required	Rating criteria	
1	Construction and building technology	Cabinet Making (Advanced)	Making of a wood structure with provided materials and equipments, with respect of the guidelines	The duration of the contest will be maximum 6 hours. It consists in making a wood structure. Candidates must use hand tools, machines and materials provided carefully. Dimensions, shape, assembling and all technical details should respect the guidelines and the provided plan. Candidates must submit to the jury, a part of their work before assembling (for the notation of internal assembling), and the final work should be given within the time limit.	Be able to: read and interpret a plan, analyse the guidelines. / Organise the work place, manage the time / Identify, draw, machine and assemble wood pieces and derived products to make a wood art structure as required / To finish, proceed to sanding	The final wood structure should respect the plan and the guidelines (dimensions, shape, assembling) / Quality and precision of internal assembling / Quality and precision of external assembling / Quality of finishing / Overall aspect
2	Construction and building technology	Cabinet Making (Basic)	Making of a simple wood structure with provided materials and equipments, with respect of the guidelines.	The duration of the contest will be maximum 4 hours. It consists in making a part or an entire simple wood structure. Candidates must use hand tools, machines and materials provided carefully. They will have access to a specific machinery (bandsaw, drill, grinder...) but they must be equipped of their handtools as most part of the work will be done at the workbench	Be able to: read and interpret a plan, analyse the guidelines. / Organise the work place, manage the time / Identify, draw, machine and assemble wood pieces and derived products to make a wood structure as required / To finish, proceed to sanding	The final wood structure should respect the plan and the guidelines (dimensions, shape, assembling) / Quality and precision of assembling / functioning of moving parts - Quality of finishing / Overall aspect
3	Construction and building technology	CAC/CAD Architecture	Making a drawing(layouts) of an implementation plan from architectural sketch.	The contest consists of making architectural construction drawings using the provided CAD system. The duration of the contest will be maximum 6 hours. Based on theoretical and basics construction system knowledges, draw the requested views: Map view(s), prospect(s)elevation(s), cross-sectional view(s) then start printing on the requested format. Give print-outs to the jury as well as the USB stick on which you will have stored your work.	Be able to : analyse guidelines / Design/draw a building in accordance with the guidelines and the regulation / Draw implementation plans, prospects, elevations and the necessary sections.	For each requested drawing (implementation plans, sections, prospects/elevations) rating criterias are the following:Quality of the global drawing / Existence of the object, its position on the drawing, thickness of the lines. / Respect of the construction system / coherence with the guidelines
4	Construction and building technology	Electrical installation	Installation and / or repairing of an electrical system according to the plan and the specifications	The contest has a duration of six hours maximum. It consists in achieving an electrical installation for housing (socket, lighting device, hot water tank supply, etc...). After installation check, a failure will be created by the jury and the candidate will have to diagnose it and repair it.	Be able to : Read and interpret electrical drawings and plans / Check and verify an installation / Analyze and diagnose a failure (tests, measurements) / Repair, by replacement or restoration, defective elements or organs, and ensure the connection / Assemble, install and connect all the elements of an electrical installation / Achieve focus settings / Check the function of the installation and its conformity with the plan and specifications.	Organization the workplace (safety, cleanliness, use of the equipment and the tooling) / Proper functioning of the installation and in accordance with the specifications / Relevance of the diagnosis / Correct implementation of the system.
5	Construction and building technology	Landscape Gardener (individual)	Creating a green space with the materials and plants provided in accordance with the plan and specifications	The duration of the contest will be maximum 6 hours. It consists in starting with a plan and a specification to develop a landscaped area. Candidates will work alone, they will use the materials and plants available to them, they will meet a defined space to achieve the imposed landscape.	Be able to : analyze a plan and a specification / Organize the test, plan the steps and use the materials and plants / Conduct the different steps of the development project of a green space / Check and control throughout the process (size, setting-up, implementation of materials and plants).	Management of the workspace and safety / Use of materials and plants / Compliance, conformity with the plan and specification / Accuracy of the setting-up of the elements (decoration plants...)/ General appearance of the landscaped area.
6	Construction and building technology	Paintwork (Painting and decorating)	Paint a surface. Cover a surface with wallpaper. Both tasks will be done according to a pattern.	The duration of the competition will be a maximum of 6 hours. The competition includes : - preparation of the surface ; - the application of decorative paint; - the application of wallpaper. The creation of a logo or lettering may be requested.	Comply with safety, hygiene and environmental standards. Use individual and collective protective equipment. Carry out tasks according to the plans provided. Prepare surfaces. Paint surfaces with different formulations. Apply wallpaper. Know and carry out decorative techniques. Demonstrate creativity. Complete the test within the time limit.	Organisation of the workspace / Compliance with safety, hygiene and environmental regulations / Implementation of painting and wallpapering techniques / Follow technical instructions and drawings provided / Quality of the result.
7	Construction and building technology	Tiling	Tiling a wall with ceramic tiles according to the drawings and instructions given.	The competition will last a maximum of 6 hours. The competition includes : - reading the instructions and drawings provided - preparation of the surface ; - preparation of the tiles ; - preparation of the adhesive mortar; - laying the tiles; - cleaning the site.	Understand and interpret the instructions and drawings / Prepare the site / Cut the tiles according to the drawing / Prepare the glue according to the instructions / Lay the tiles on the intended surface according to the instructions and drawings provided / Prepare the cement grout according to the instructions / Make the joints / Clean the tiled surface.	Organisation of the work area / Compliance with safety, hygiene and environmental rules / Technique of tiling / Following the technical instructions and drawings provided / Quality of the result.

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8	Craft	Basket Making	Fabricating a basket with provided materials according to given themes	Duration of the contest will be maximum 6 hours. Candidates should make a basket with provided natural materials with respect of the guideline (shapes, volumes, balance, dimensions and technical details) within the time allowed.	Be able to : Analyze the guidelines, prepare the workplace / Prepare, sort and cut / Assemble and weave the basket / Control and make sure alle the requirements are respected / Manage the time	Management of the work place, cleanliness, security, optimization of materials / Respect of guidelines (shapes, volumes, balance, dimensions and technical details) / Time management
9	Craft	Pottery	Realization of a handmade pottery using the provided materials and respecting the imposed drawing.	The duration of the contest will be maximum 6 hours. it consists in modeling and turning a handmade pottery based on a drawing. Applicants use clay provided for the event.	Be able to : Prepare the material, the clay / Shape and turn the clay / Adjust, modify, correct your work to respect the imposed model / Put on the finishing touches and the decoration.	Creation identical to the drawing: shape, volume, dimension / Use of the clay / Technique used / Expression of creativity / General aspect of the work, aesthetic.
10	Creative Arts and Fashion	Dress Making (Advanced)	Producing a woman outfit and tailor made models using the provided fabric	Produce a woman outfit following the guidelines provided in the subject description. The duration of the contest will maximum 6 hours. Paper patterns will be provided. Each candidate is working with its own set of tools and should be able to set up the sewing machine and use the provided fabric. The participant should add a personal and creative touch to embellish the garment. When the contest is finished, the candidate should advert the jury to submit the work for rating.	Be able to : Take physical measurements and write it down / Create the pattern or modify the selected pattern / Mark the fabric (with a headed pin or a chalk marker) following the pattern shape, cut to the right size and pre-assemble the garment / Adjust the piece of clothing (sleeves, neck...) by first fitting / Assemble all garment pieces / Check the assembling and adjust if necessary / Realise finishing operations	General appearance / Coherence between the guidelines and the work that has been done / Creativity and Quality of assembling / Quality of the seams, finishing, ironing and of the work presentation
11	Creative Arts and Fashion	Dress Making (Basic)	Producing a part or an entire woman outfit and tailor made models using the provided fabric	The duration of the contest will be maximum 4 hours. It consists in producing a woman outfit following the guidelines provided in the subject description. Paper patterns will be provided. Each candidate is working with its own set of tools and should be able to set up the sewing machine and use the provided fabric. When the contest is finished, the candidate should advert the jury to submit the work for rating.	Be able to : Mark the fabric (with a headed pin or a chalk marker) following the pattern shape, cut to the right size and pre-assemble the garment / Adjust the piece of clothing (sleeves, neck...) by first fitting. Assemble all garment pieces / Check the assembling and adjust if necessary Realise finishing operations / Realise the finishing operations and ironing	General appearance / Coherence between the guidelines and the work that has been done / Quality of assembling (fabric pieces and accessories) / Quality of the seams, finishing, ironing and of final work presentation
12	Creative Arts and Fashion	Floral Arrangement	Making floral arrangement with flowers, plants and accessories on the given theme and purpose	The competition will last a maximum of 6 hours. It is based on composition skills and knowledge of flowers. Candidates must follow the requirements of each module to produce a handmade floral composition. This composition can be a cut flower decoration, a wedding bouquet, a bridal bouquet with bridal body decoration, a table decoration, a wall decoration, a hanging decoration, a floral jewel, an object decoration, a wreath, etc. Candidates must choose materials from among those proposed (cut flower, divided flower, folded leaf, folded paper, wire, ribbon, decorations, etc.). The workplace must be cleaned at the end of the allocated time.	Be able to : Analyse a imposed subject, define an idea, and draw a first draft of the project / Choose and prepare the plants, decorative accessories... / Prepare the workplace and optimise the materials. / Make the final floral composition and show the work.	Organization of the workplace, waste management / Choice and plants preparation, accessories / Respect of the imposed subject / Technical skills / Creative expression, originality and quality of the final work (volume, color...)
13	Creative Arts and Fashion	Hairdressing	Realization of capillary care, of hygiene, by putting in beauty the hair of the models.	The total duration of the three modules is a maximum of 6 hours. It consists of reproducing a hairstyle imposed by a model (photo). The competitors will have to carry out all the different stages: hygiene, safety, preparation of workstations, cutting, shaping and styling etc.	Be able to: Analyze and identify the expected hairstyle (cut, coloring, bleaching, care...) / Respect the hygiene, the safety / Prepare the hair of its model shampoo, care, cut the hair (gradations, tapered, staked...) / Shape or volume the hair (curling, blow-drying...) / Style and fix, shine (lacquer, gel, gloss...)	Respect for hygiene and safety Organization of the different workstations. Conformity with the imposed model (photos): symmetry, asymmetry, balance, volumes, directions of movements etc.... / General appearance, aesthetics.
14	Creative Arts and Fashion	Jewelry	Hand-made fabrication and adjustment of a jewel according to a provided drawing and a molded model. Deposit of material, shape adjustment, welding and brazing	Duration of the contest will be maximum 6 hours. It consists in making a piece of jewellery or several components in accordance with a technical drawing. Candidates should use and manage only the material supplied. They will carefully use the tooling, brazing material and other dangerous products (acid...) with all the safety procedures required.	Be able to : read a plan and decode the guidelines / Organise the workplace and manage the time / Detect material defects and determine the stresses in the component / Prepare the metal and the sub-assemblies / Place and assemble metal pieces, gemstones... together by welding, crimping... / do the decorative and finishing operations (polishing, filing)... / Control the conformity of the piece (size, symmetry, design...) and authenticate by marking.	Management of the work place, security, and optimization of the material used / Respect of the guidelines, material, shape, volume, balance and dimensions / Quality of solders / Quality if finishing / General appearance and design
15	Creative Arts and Fashion	Tailoring	Make a man's garment from the fabric provided and the instructions given.	The duration of the contest will be maximum 6 hours. The task is to make a custom-made men's garment according to the instructions. The competitors must follow the patterns provided for the cutting process. They must be able to carry out the entire production process according to the garment to be made (attaching the collar to the upper garment and attaching the sleeves, trousers, jackets, t-shirts, etc.). The finished garment is presented on a mannequin.	Be able to: determine measurements, dimensions / Realise a pattern with respect of the dimensions / Cut out the fabric according to the pattern / Assemble the different pieces through stitching / Adjust the outfit / sew the whole garment / make the finishing (collar, sleeves, pockets, topstitchings, linings...)	Quality of cuts / Accuracy and quality of sleeve, collar and pocket fastening / Quality of stitching / Strength and finish of the whole garment / Accuracy and adherence to dimensions / Management of the sewing process / Organisation of the work area / Compliance with safety standards

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16	Food	Bakery (bread)	Making and decorating of bakery goods with provided professional bakery equipment and according given instructions. Contestants must add a creativity touch.	Duration of the contest will be 6 hours maximum. From an imposed subject with given recipe, candidates should make 3 types of bread using given products and material. Candidates must be able to express their creativity.	Be able to: Organize the workstation / Follow a recipe while respecting dosage and proportions of products / Ensure the highest standards of hygiene and food security / Optimize the use of products / Express creativity / manage the time	Respect of hygiene, cleanliness and workstation organisation / Products implementation / Respect of the guidelines and recipe / Time management, achievements
17	Food	Cake Decorating	Make an artistic composition according to a given theme. Make decoration elements and chocolate icing with a dummy cake. The candidate may be asked to make a flower in front of the judge.	Duration of the contest will be maximum 6 hours. The preparing and workplace clean-up are included in allocated time. The organisation will provide all equipment and product for the contest.	Competitors must be able to compose an artistic composition / organise their workplace / optimize the use of products / comply with hygiene and food safety standards / organise their work efficiently.	Compliance with sanitary requirements / Workspace organization / Work with food products and limiting waste / Compliance with the time limit / Contestant's work and professional skills / Evaluation of the end work presentation of the contestant.
18	Food	Carving (vegetables)	Carving and arranging a composition of raw vegetables and fruits on a given theme. Competitors must produce a harmonious and artistic combination with a high level of detail in composition and colour.	Duration of the contest will be 6 hours maximum. Contestants will receive necessary vegetables, fruits and various elements in order to compete. The workplace must be cleaned at the end of the allocated time.	Competitors must be able to compose fruit and vegetable bouquets of any complexity / organise their workplace / assess the quality of vegetables and fruit at all stages of the workflow / comply with hygiene and food safety standards / organise their work efficiently.	Compliance with sanitary requirements / Workspace organization / Work with fruits and vegetables, and limiting waste / Compliance with the time limit / Contestant's work and professional skills / Evaluation of the end work presentation of the contestant.
19	Food	Cooking (Individual work)	Make a menu with ingredients and dishes (appetizers/main dishes/desserts)	Duration of the contest will be maximum 6 hours. It consists in preparing appetizer, main dish and desserts. Execution of the assignment means comprehensive process including cleanliness, preparation, cooking skills, taste, visual expression, etc. for each course. Each assignment's product is to be finally provided in dish	Be able to: Apply hygiene and food security rules / Organise its work / Make recipes with limiting food loss / Master the cooking, seasoning and side dish / Express creativity with plating	Cleanliness, hygiene and workstation management / Respect of Dishes, recipes, and taste / Products and waste management / Creativity, plating
20	Food	Cooking (Team work)	Make a menu with ingredients and dishes (appetizers/main dishes/desserts)	Duration of the contest will be maximum 6 hours. It consists in preparing appetizer, main dish and desserts. Execution of the assignment means comprehensive process including cleanliness, preparation, cooking skills, taste, visual expression, etc. for each course. Each assignment's product is to be finally provided in dish	Be able to: Apply hygiene and food security rules / Organise its work / Make recipes with limiting food loss / Master the cooking, seasoning and side dish / Express creativity with plating	Cleanliness, hygiene and workstation management / Respect of Dishes, recipes, and taste / Products and waste management / Creativity, plating
21	Food	Patisserie and Confectionery	Produce a range of individual cakes. Produce a chocolate presentation piece employing many techniques. Contestants must have a creativity touch.	Duration of the contest will be 6 hours maximum. The competition consists of two modules. Module 1: production of 15 to 20 mini-cakes weighing between 35 and 40 grams. The dough and other accompanying products will be made with ingredients provided by the organisation. Module 2: create and produce a chocolate sculpture of at least 45 cm in height. The chocolates will be of 3 types.	Be able to arrange your workplace / Apply high standards of hygiene and food safety / Use products appropriately / Demonstrate a creative approach / Time tasks correctly.	Compliance with sanitary requirements / Workspace organization / Compliance with the time limit / Contestant's work and professional skills / Evaluation of the end work presentation of the contestant / Creativity.
22	Food	Restaurant Service	Ensure the restaurant service runs properly in compliance with the rules in force, forge a great relationship with the customer being attentive, polite and reliable to answer the needs.	The duration of the contest will be maximum 6 hours. It consists in organising and ensuring a restaurant service. Different modules will be judged : Drink service at the bar, table laying, table service, management of the client departure, table clearing.	Be able to : Verify the provided material (dishes, cutlery, tablecloth, napkins...) / Lay a table, and prepare the service console / customer welcome and follow-up, presentation of the menu, drinks and wines. / Advise the client / ensure the client order is properly given to the kitchen	food and beverage service / Technical realization in front of the client or in the office / Bar and coffee service / professional behaviour, relationship with the customer.

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23	Health	Artificial Limb Socket Making	Creation of an orthosis for a lower or upper limb according to the instructions given.	The duration of the contest will be maximum 6 hours. The contestation is based on the control and the mastering of the artificial lower limb production process. Candidates will be judged through the realization of a practical exercise, they should respect the guidelines outlined in the subject. Every step is taken under consideration for the rating : lower limb impressions, use of the products, trimming (cutting machining and adjusting), and finishing with abrasives	Be able to : Analyze the guidelines, prepare working sheet / Realise measurements, impressions and molding / Product achievement (soft liner) / Trim, machine and adjust the artificial limb / Respect the hygiene rules	Respect of security and hygienes rules / Impression quality, precision, respect of obligations / Quality of trimming, dimensions, respect of constraints / Quality of finishing
24	Health	Dental Technician	Production of prostheses (crowns, rings, braces) from dental impression. Shape molds and use ceramics, composite materials and precious metals.	The duration of the contest will be maximum 6 hours. It consists in making a plaster mold from a model and indications set out in the specification. Candidates hone and adjust until they get the desired device then, they make the prosthesis replacing the wax with ceramics, metal, resin or other suitable materials. They do the finishings, they sand, grind and burnish. They regularly inspect and test each step to produce a prosthesis according to demand.	Be able to : Observe, analyze a prosthesis model and plan the work in order to duplicate it / Make a mold from a provided model / Make a prosthesis from the mold / Carry out finishing operations / Check and monitor the compliance of the prosthesis from the model provided..	Organization of the workstation, cleanliness, safety / Use of products and materials / Quality of the achievement of the mold / Compliance of the prosthesis according to the dental impression / State finishing and overall appearance.
25	Health	Manicurist	To perform a sanitary manicure with the application of a durable decorative coating and nail design, using professional equipment and materials. Creativity and professionalism are required in the choice of techniques and materials used.	The main task is to perform a manicure with cut cuticles within the time limit of the competition, using the materials provided and additional accessories. The competitor will create a decoration with gel polish and will have to demonstrate creativity and technique in nail design.	Be able to: Organize the workspace / Comply with the manicure technology / Perform the hand skin and nails care procedures / Comply with high hygiene and disinfection standards / Express their nail design creative ideas / Observe the task allocated time.	Compliance with health and safety standards / Organisation and equipment of the work area / Compliance with the manicure process / Aesthetics and quality of the decorative coating / Respect for safety rules when working with tools and equipment. General rating of the work, aesthetic impression/
26	Health	Massage (Modelling)	Perform several massages according to the instructions. Perform them with the techniques adapted to the situation.	The duration of the contest is maximum 6 hours .The test consists of two modules. Candidates are provided with an equipped workstation (height adjustable massage table, bolster, therapy table, chair) and a kit of consumable materials (oil, skin disinfectant, disposable sheets, cap, slippers, bustier, pants, bathrobe (for the model), paper towels, wet wipes, mat, a warm bathrobe (for the model).	Be able to : Set up their work space / Prepare the model for massage-modelling / Examine the model to identify contraindications to massage-modelling / Select massage-modelling techniques according to the particularities of the model's physiological condition / Respect the time limit / Perform massage-modelling according to the method indicated / Evaluate the condition of the model before and after the procedure / Respect the sanitary rules.	The organisation of the workplace /The candidate's dress code / The respect of sanitary requirements / The candidate's performance during the massage-modelling / Compliance with the massage/modelling techniques used / Use of massage-modelling techniques in accordance with the individual anatomical characteristics of the model / Safety of the massage programme chosen for the model / Respect of the time limit.
27	Health	Medical and social care	Assistance and people support in their daily tasks to ensure their needs and using holistic approach to care.	Candidates are provided with an equipped workstation (height adjustable massage table, bolster, therapy table, chair) and a kit of consumable materials (oil, skin disinfectant, disposable sheets, cap, slippers, bustier, pants, bathrobe (for the model), paper towels, wet wipes, mat, a warm bathrobe for the model)	Be able to: Evaluate a situation to identify appropriate needs / Plan and organize the care / Deliver the care in respect of hygiene rules, ergonomics and security / Share equitably the responsibilities between each other / Respect the patient and the principles of law and ethics in the delivery of care / Organize educational and creative activities appropriate to the patient.	Security, ergonomics and environmental rules /Evaluation and planification / Care, nursing and pharmacotherapy / Creativity, organization of the educational activity.
28	Health	Optician	From a specific case, realise optical assembling. Realize sizing and adaptation of the corrective lenses inside the frame glasses	The contest will last a maximum of 6 hours. It consists of choosing the best frame and the most suitable lenses according to the specifications of a client, and ensuring the assembly and adjustment of the lenses while respecting the constraints. The candidates will check their work before handing it in to the jury.	Be able to : Analyze the needs and select the appropriate material accordingly (eyeglasses, frame glasses...) / Assemble and adjust eyeglasses (placement, size, and insert into the frame glasses) / Proceed to control operations (centering, comfort, aesthetic...)	Use of the material provided / Choice of eyeglasses / Assembling quality and eyeglasses adjustments / Conformity with the original request.

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29	ICT	Administration and Management of Network Systems	Installation, maintenance and updating of computer equipment and softwares	The duration of the contest will be maximum 6 hours. Starting from basic equipment: routers, switch and servers, candidates must complete the installation, configuration and diagnostic respecting all the criteria imposed by the systems (Linux, Windows and Cisco).	Be able to : Establish the performance requirements of a network / Configure the equipment, updating hardware and softwares / Establish and control safety procedures (access rights, passwords ...) / diagnose network failure in an unknown environment / Resolve anomalies and network operating failures.	Conformity and quality of the installation / Conformity and quality of the configuration / Conformity and quality of the diagnosis / Compliance with the criteria imposed by the systems (Linux, Windows and Cisco).
30	ICT	Computer Assembly	Assembling a PC (organizing systems and installing network...) with the Hard/Software knowledge according to the given specification and making it run on the Operating System	The duration of the contest will be maximum 4 hours. The contest consists in assembling a computer (PC) with the provided components following a specific scheme and according to the instructions / guidelines. Install the operating system and the network according to the specifications. When finished, notify judges for the rating	Be able to: Decode a scheme : Analyze the guidelines / Assemble a computer piece by piece / Configure the BIOS system / Install the operating system / contestine and test the installation	The work will be judged through 3 criterias: The material (appearance of the casing backside/fronside/inside, functioning) / The installation of the software(s) (BIOS, servor, paramaters... The Inventory of the workplace (cleanliness, tidying up)
31	ICT	Computer Programming	Creation of an application program with using programming languages and databases to operate given task assignments	Duration of the contest will be maximum 6 hours. contestination is essentially based on theory. Candidates will use computer system, programming languages (Visual C, Visual Basic...) and the data base. Design program to make execution possible following the given instructions. To respect the required conditions, candidates must capture input and output screen and back up the data,	Be able to : Master and use programming languages / Analyse guidelines / Define the different steps of the program operation / Write down the program and its application / Test, modify , improve and/or then validate.	Quality of computer coding and respect of the guidelines / Programming achievement / Functionality, efficiency and creativity / user experience of the program / Quality of the Overall Conception (composition and alignment)
32	ICT	Creating Web Pages	Creation of web pages including various information and functions on provided data	Duration of the contest will be maximum 4 hours. It consists in creating web pages on the specific and imposed theme, using a style sheet and a framework. The use of an application software is allowed, web programmation is included in the production of the web page. Creation of the homepage and web programming should be appropriate for various organisation : Groups, companies, specific group of people... with respect of the guidelines. At the end of the contest, candidates have to save their work on a USB stick and give it to the jury.	Be able to : Decode guidelines : Design the layout choosing the appropriate typography and colors / Developp HTML and CSS languages : Developp the user experience interactivity and additional functionalities with Java Script ◊ Use the design interface / Integrate social network features / Testing phase of web functionalities / Developp the user experience interactivity and additional functionalities with Java Script and PHP (form creation).	An important coefficient will be allocated to basic skills knowledge especially HTML and CSS / Originality and creativity / Search engine optimisation / Ease of use
33	ICT	Data Processing	Creating database processing application using DBMS (Database Management System)	The competition will last a maximum of 6 hours. It consists of the creation and exploitation of a database according to the instructions given.	Be able to : Create a database according to the specifications / Create an editable data entry form / Create and execute data extraction and use queries / Create automations (macro and module) for the operation of application programs (user interface)	Creating a relevant database / Entering a quantity of data accurately / Editing data, number of times editing data accurately / Correcting data / Using the data management system)
34	ICT	Electronic (Basic)	Assembling an electronic equipment from a given circuit board drawing using provided component	The duration of the contest will be maximum 4 hours. It consists in assemble an electronic equipment and make the connections of various types of electronic machines. Candidates must use given components and respect the wiring plan. The result must meet operational requirements.	Be able to : Read and interpret technical wiring plans / Assemble and connect various types of electronical components trough soldering, brazing / Make the wiring / Test and complete the functioning of an electronic system	Work place and components management / Quality of of components assembling and wiring / Proper functioning of the system / Cleanliness of the work (nothing like soiling, dirt, print must remain on the printed circuit board or on the base frame.
35	ICT	Electronic Assembly (Advanced)	Assembling electronic components, building and testing of a basic circuit / connecting the circuit based on the electronic scheme and guidelines and according to general knowledges from the industry domain.	The duration of the contest will be maximum 6 hours. It consists in assembling an electronic system following the requirements and the guidelines, candidates must verify the proper functioning of their electronical system. Participants should define the test series to make, choose the right measurement equipments and interpret the results in order to make the appropriate adjustments. When a circuit fails, candidates must identify, fix and replace faulty components	Be able: to read and interpret technical shemes / Assemble and connect electronical elements through brazing and welding / Realise wiring of an electronical system / Verify that the protocol is matching with the performance expected / Identify a failure and fix it / Make tests and proceed to maintenance and adjustments on an electronical system	Organization of the work, components management / Diagnosis of the failure / Quality of brazing and wiring / Functioning of the electronic circuit / Proper functioning of the system / Cleanliness of the work (nothing like soiling, dirt, print must remain on the printed circuit board or on the base frame.
36	ICT	Virtual and Augmented Reality Developer	Development of a virtual and augmented reality game for use on mobile and portable devices.	The duration of the contest will be maximum 6 hours. It consists in developing an application based on Augmented Reality (AR) and Virtual Reality (VR) technologies according to the given theme. The created applications must have high-quality User Interface design (UI) and User eXperience design (UX), run and work correctly on test mobile and wearable AR and VR devices.	Be able to : Master and use specific softwares such as Adobe Creative Cloud, cross platform image editor, drawing software, multi-track audio editor and recorder, etc / Analyse guidelines / Define the different steps of the program operation / Write down a programm and its application / Test, modify , improve and/or then validate.	Quality of computer coding and respect of the guidelines / Programming achievement / Functionality, efficiency and creativity / user experience of the program / Quality of the Overall Conception (composition and alignment)

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37	Industry	Bicycle Assembly	Assembling a bicycle according to given instructions and making adjustments to make it run properly	Duration of the contest will be 6 hours maximum. Each candidate will get a package containing a disassembled bike, the technical datasheet from manufacturer including the assembling instructions. A bicycle assembled and adjusted will be in demonstration on the stand. contestination consists in pre-assemble and ensure that the bicycle is adjusted to run properly.	Be able to : Unpack methodically / Analyse technical instructions / Organize the work station properly / Pre assemble every spare parts / Ensure correct assembling / Proceed to security and operating adjustments / Check the work done before giving to the jury	Management of the work place, cleanliness, security, optimization of materials / Quality of assembly / Respect of manufacturer instructions regarding assembly on operating and security system / Adjustment of the gear, wheels and braking system
38	Industry	Engineering Design (Computer-Aided Design)	Making detailed side drawings and parts for machine tools	The duration of the contest will be maximum 6 hours. The contest consists of making drawings exercises using the provided CAD system. Assignments should be done following ISO standard. Based on basics machine tools manufacturing knowledges, make a full production plan, be able to make the requested parts and start the printouts. Give print-outs to the jury as well as the USB stick on which you will have stored your work.	Be able to: read and analyse a plan / represent and size the parts, materials or mechanical units /determine and calculate the functionals, physicals, dimensionals structural or geometrical constraints of the each parts.	Working attitude / Visual quality of the work / Dimensioning, tolerance and product surface / Drawing: Projection method, different views
39	Industry	Robotic	Build and program a robotic platform with the help of Lego Mindstorms Robot Inventor to perform automatic actions (only original parts can be used).	The duration of the contest will be maximum 6 hours. It consists in automatize the process of delivering material units on a nominal venue by creating an autonomous robot.	Be able: to create an autonomous robotic platform / work with Lego Mindstorms Robot Inventor, EV3 Home and other software / build algorithms / commutate robotic platforms with a personal computer or a tablet.	Quality of computer coding and respect of the guidelines / Completion of the task within allocated time in compliance with the instructions / Building a mechanism that can move and grasp nominal units /Performing the movement of nominal units on a nominal venue.
40	Industry	Motorcycle Mechanics	Diagnosing and repairing of motorcycle vehicles: electrical, electronic systems and components	The duration of the contest will be maximum 6 hours. It consists, with a provided motorcycle vehicle, in realizing electrical and anti-pollution diagnosis, mechanical operations on bottom or top part of the engine such as: Replace the front balancer shaft, Check rod lubrication, control oil pump, respect installation and removal procedure of the components, respect the torques according to manufacturer recommendations, Remove the cylinder head and realize the metrology, Identify defective parts (and bring into conformity), Replace valve train.	Be able to : Respect safety rules / Realize electrical and anti-pollution diagnosis of a motorcycle vehicle / Find the cause of a breakdown and make any necessary repairs / Realize maintenance operations	Management of the work station, cleanliness and security / Electrical and antipollution diagnosis / Maintenance operations / engine mechanical repairs / replacement of mechanical element
41	Industry	Welding	Assembling of metal pieces through welding in order to obtain a final product in conformity with the specifications and the plan	The duration of the contest will be maximum 6 hours. According to given plan and specifications, realize a structure composed from various metallic elements and assemble by welding.	Be able to : Respect security requirements / Adjust the welding work station / Prevent from distorsions caused by the temperature rise of the material / Assemble metal pieces by smelting process following the plan / Control and verify the compliance of the piece according to the plan. / Control and verify the welding conformity	Respect of security requirements and management of the work place / Use of welding material / Quality of welding / Realization in accordance with the plan and the specifications

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Departement	Skills Contest	Summary of the contest	Running of the contest	Main skills required	Rating criteria	
42	Leisure	Crochet Work	Realization of a product from thin threads according to the imposed pattern.	The duration of the contest will be maximum 6 hours. It consists in achieving a decorative product with crochet hook and threads. Applicants must meet the provided drawing.	Be able to : Interpret a drawing / Master the techniques of the crochet / Know how to identically reproduce a model using the provided threads / Control and adjust your work / Achieve finishing operations.	Realization identical to the drawing / Work with the material provided / Control of waste / Respect of the safety rules / Technique used / Respect of the time allowed / General aspect of the work, aesthetic.
43	Leisure	Embroidery	Hand production of patterns and embroidery models, observing a given topic and using different styles of embroidery stitches.	The duration of the contest will be maximum 4 hours. It consists in achieving with provided embroidery needles and threads a decorative product imposed by a drawing or a model. Candidates may have to perform a sewing operation to the finishing the product.	Be able to : Interpret a drawing, a model / Master the techniques of embroidery / Know how to identically reproduce a model using the provided threads / Control and adjust your work / Achieve finishing operations.	Creation identical to the model / Work with the material provided / Technique used / Respect the allotted time / General aspect of the work, aesthetic.
44	Leisure	Hand Knitting	Creation of a hand-knitted product according to specifications and a given pattern.	The duration of the contest will be maximum 6 hours, it consists in making a hand knitting product (garment or decorative product) thanks to a knitting needles and wool threads provided with respect of the guidelines. Candidates must meet the provided drawing.	Be able to: Analyse the specifications, interpret a drawing / Master hand knitting techniques / Reproduce a model using provided wool / Control and adjust its work / Achieve finishing operations.	Realization identical to the drawing / Work with the material provided / Control of waste / Respect of the safety rules / Technique used / Respect of the time allowed / General aspect of the work, aesthetic.
45	Leisure	Painting and Waste Reuse	Realization of creative objects (functional and/or aesthetic) using waste materials.	The duration of the contest will be maximum 6 hours. It consists to imagine and design, then produce an aesthetic and/or functional set according to a given theme with the tools and waste provided. Competitors must design their project with sketches and then install it on the workspace allocated by drawing lots.	Be able to : Develop a creative idea from a theme and a set of objects provided / Make sketches / Shape, assemble and produce a number of objects or sets using a variety of techniques / Produce a work that delivers a message according to the given theme.	Creativity and originality / Use of the provided waste / Technique employed / General aspect of the work, functionality, aesthetic.
46	Leisure	Silk Painting	Making a product(scarf or wall-decoration) with silk and colors and drawing according to various techniques	The duration of the competition will be 6 hours maximum. The aim is to create two modules according to a given theme and a set of specifications. You will have to use different drawing and painting techniques on silk to create a scarf and/or a wall decoration.	Be able to: Interpret and reproduce a drawing / Analyse an imposed theme, define a concept and reproduce through printing / Manage silk painting techniques / Manage the mix of products, liquid acid dye, colors for textile, acrylic color for painting materials...	Management of the work space, cleanliness, safety / Accuracy and respect for the model and drawing / Originality and creativity / Choice and mixing of colors / Regularity of lines / Use of appropriate techniques / Quality and general appearance of the final work.
47	Leisure	Wood Carving	Making a wood carving according to given drawing.	The duration of the contest will be maximum 6 hours. According to a given drawing, candidates must realise a wood carving using provided hand tools. A creative part, or a personal interpretation might be part of the contest.	Be able to: Interpret and reproduce a drawing / Manage wood carving techniques, cutting.../ Create shape and volume harmony in a creation	Workplace, cleanliness and security management / Precision and respect of the provided guidelines and drawing / Originality and creativity / Overall design, wood carving quality

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Departement	Skills Contest	Summary of the contest	Running of the contest	Main skills required	Rating criteria	
48	Media	Character Design	Creation and design of characters according to given theme using computer softwares	The competition will last a maximum of 6 hours. It consists of designing a 2D and 3D animated character and a narrative corresponding to the given theme. The design stage involves the production of 2D sketches using software tools. The 3D animation stage involves creating a character that can perform simple or sophisticated movements using software tools. The narrative stage consists of writing a text describing the character, the context in which he interacts and his character traits.	Be able to : Create and draw a character with a visual identity, a design, from a given theme / Animate the character / Use illustration and animation software such as Adobe Illustrator, Adobe Photoshop, Adobe After Effects and Microsoft Office Word / Save the work done / Write a story.	Originality and choice of visual identity according to the given theme / Quality of the realisation in 2D and 3D / Safeguarding and production of the work carried out / Quality of the illustration and colours / Coherence with the story and quality of the narration
49	Media	Multimedia Journalism	Prepare an authorial media content for internet with the use of photo and video footage.	The competition will last a maximum of 6 hours. The competition consists of preparing textual material using your own photos and videos, and preparing infographics according to the given theme. Participants in the competition should bring a digital camera and a smartphone, both without an Internet or wifi or bluetooth connection and without any content inside. All material is published on the Internet according to the competition task (specific website or social media community).	Be able to: create authorial content in any semiotic system according to the particularities of the genre / create and edit text in a text editor / create and assemble video in video software / create and edit photos in graphics software / create and edit infographics in graphics editor / work with web editors on the Internet and upload text, graphics and video content according to the context of the website / interview, work with information from different sources	Adherence to the given theme within the time limit and in accordance with the instructions / Adherence to the criteria of the sector / Author's vision of the theme / Presence of an own style / Quality and originality of the whole / Mastery of the professional skill.
50	Media	Photography-Outdoor	Taking Photos outside a studio, in an outdoor environment or in a building.... Candidates must use technical skills and creativity on given theme using digital camera	The duration of the contest will be maximum 6 hours. It consists in making a photography coverage on a given theme and in a specific environment. Candidates will select a given number of photos, print them out, save them on a USB stick and submit the final work to the jury. Contestants will use their own digital camera (full frame or APS).	Be able to: Identify best shooting possibilities according to the given theme / Proceed to technical adjustments and realise the shooting / Select the best photos in accordance with the guidelines	Respect the given theme / quality and professionalism of shooting (balance between the quantity of taken photos and the final selection submitted to the jury.) / Quality of selected photos / Creativity and originality.
51	Media	Photography-Studio	In a studio environment, in an outdoor environment or in a building.... Candidates must use technical skills and creativity on given theme using digital camera	The duration of the contest will be maximum 6 hours. It consists in doing a studio photo shooting of a model respecting the given theme. Candidates will select 3 photos, edit them on with a specific software, print them out, save them on a USB stick and submit the final work to the jury. Contestants will use a digital camera with over 5.0 mega pixel.	Be able to : Arrange a model and freely create a scenography according to the guidelines. / Proceed to technical adjustments and do the photo shooting / Manage the photo editing with a dedicated software.	Capacity to help in the model expression, staging (scenography) and creativity / Respect of the guidelines / Use of the provided material given in the studio / Management of the photo editing software / Quality of the final work.
52	Media	Poster Design	Designing a poster including text and design forms in color on a given theme using computer	The duration of the contest will be maximum 6 hours. It consists in designing a poster according to the given theme using computer. At the planning stage, candidates will have to come up with ideas, concepts in order to reach the objectives and the target. Visualization stage is the design process using computer and design softwares (Adobe, Photoshop, Illustrator, InDesign). At this stage, every visual elements such as shape, text, color, etc. are composed fit to the purpose. Final work is to be stored on a USB memory, printed in the required format, and submitted to the jury.	Be able to : analyse a given theme, define a concept, an idea and design a poster accordingly / Manage the softwares Adobe, Photoshop, Illustrator, InDesign / Realise a layout with text, colors, illustrations...	Quality of the layout / Use of the colors / Ability to use the provided material and softwares associated / Poster Design expression and consideration / General quality of the poster, creativity and originality of the concepts.
53	Media	Publishing	Create and design a graphic document for print using Adobe software according to the given theme and according to a category of readers	The competition will last a maximum of 6 hours. It consists of the elaboration of a publishing design consistent with the concept described in the given manuscript. The visual and transmission effects must correspond to the required format, deciding on the size or layout of an image or text. The final product must be laid out according to the assigned size. All content (images, text or figures, etc.) must be saved and printed in the required format for submission to the jury.	Be able to : Set up the successive phases in accordance with the guidelines / Enter the text, make the layout from the manuscript, the first draft... / Search and select documents and images in the database / Design the layout and enrich the document with texts, images, corrections / Give specific treatments to the texts and images according to the modes and types of printing / Set up the successive phases in accordance with the guidelines / Verify the document and carry out backups as well as printing the brochure.	Overall quality of the brochure / Compliance with the guidelines, theme, format, text size and illustrations / Creativity and originality.
54	Media	Word Processing	Typing a document according to a given MS-word sample	The duration of the contest will be maximum 6 hours. It consists in create a MS-Word document. The contest is composed of word processor practical exercises based on entering of data.	Be able to: Create and modify a MS-word document / Manage Microsoft Word Software / Choose and apply font style, paragraph formats and layout functions / Insert images, diagrams, tables and adjust to format / Insert bookmarks and hypertext links	Respect the guidelines and provided datas / Overall aspect of the document and readability / Use and management of Microsoft Word software and associated functions

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	Departement	Skills Contest	Summary of the contest	Running of the contest	Main skills required	Rating criteria
55	Services	Bookbinding and Stitching	Create a hard cover notebook, bind notebooks with metal spiral and make a saddle stitch binding.	The duration of the contest will be maximum 6 hours. It consists in making: a hard cover notebook and sheets / a "calendar" type product / a brochure.	Be able to perform : Stapled binding / Glued binding / Folding and gluing binding / Gluing of detachable blocks / Sewn binding / Spiral binding.	Knowledge of the different techniques and use of the different equipment / Search for defects in the materials supplied / Conformity of the final product / Work performed with equipment provided / Respect of the allotted time / Respect of the safety rules / Limitation of material losses.
56	Services	Cleaning Services	Clean one or more windows , including the frame (with spots removal). Perform combined cleaning of textile flooring (injection - extraction).	The duration of the contest will be maximum 4 hours. Cleaning of windows using appropriate equipment (squeegee, wiper, scraper, window cleaning kits, telescopic poles, etc.) and detergents according to instructions and safety standards. The workspace must be cleaned at the end of the allocated time. Cleaning of floor coverings using equipment and detergents according to instructions and safety standards.	Organise their workspace / Recognise the nature and level of soiling / Identify anomalies or deterioration / Choose the most suitable working methods / Select materials, products and personal protective equipment / Carry out cleaning according to the surface and technique to be used / Carry out self-checks / Put the work area and the work station back in order / Manage the time of the service.	Identification of dirt and anomalies as well as risks / Choice of cleaning method / Implementation of cleaning techniques / Compliance with safety rules and time limits / Control of implementation and results.
57	Services	Housefold Appliance Repair	Repair appliances such as washing machines, dishwashers, cooking appliances, small household appliances.	The duration of the contest will be maximum 6 hours. It consists, with several type and size of provided compliance, in realizing electrical diagnosis, mechanical operations. Identify the cause of the failure and provide "the customer" with a cost estimation of repairs and the time intervention. Perform troubleshooting (disassembly, change of parts, electronic components, ...) and check the correct operation of the device. Clean, dust, restore covers and plastics and reassemble devices. Fill in the reports of intervention follow-up.	Be able to : Find out about the circumstances of the breakdown and draw up a first diagnosis / Respect safety rules / Locate the failure through checks, tests and measurements / Change a defective part / Identify defective components and parts / Repair a defective part (desoldering and soldering techniques, change electronic card, repair device sealing ...) / Check the working condition of a product / Set machine and equipment parameters.	Management of the work station, cleanliness and security / Diagnosis accuracy / All Maintenance operations / Engine mechanical repairs / Timeliness / Material cost and reuse of parts.
58	Services	Shoe Repair	Carry out a shoe repair according to the instructions given, using the repair supplies provided by the organiser.	The duration of the competition will be 6 hours maximum. The aim is to repair a man and/or woman's shoe or boot according to the instructions given. This may consist of changing the outer sole and/or heel, changing the inner sole, fitting inner reinforcement.	Be able to: organise his/her workstation / carry out the repair of all types of footwear in compliance with the technical regulations / respect the safety procedures when working / carry out the operations requested on the footwear without damaging it / check the quality of the finished work / carry out the task within the time allowed.	Organisation of his/her work space / Compliance with instructions given / Professional skills / Compliance with the time allowed / Compliance with safety rules in the use of materials and supplies / Waste management / Control of the quality of the work / General rating of the work, aesthetic impression.