

المسابقة الوطنية لمهارات الإمارات The EmiratesSkills National Competition

15-18 April 2019



EVENT GUIDE

Under the patronage of

Her Highness Sheikha Fatima Bint Mubarak

Chairwoman of the Family Development Foundation and
the Head of the General Women's Union



إن الثروة الحقيقية والمكسب الفعلي للوطن يكمن في الشباب الذي يتسلح بالعلم والمعرفة، باعتبارهما وسيلة ومنهجاً يسعى من خلالهما إلى بناء الوطن، وتعزيز منفعته، في كل موقع من مواقع العطاء والبناء.

صاحب السمو الشيخ محمد بن زايد آل نهيان
ولي عهد أبوظبي نائب القائد الأعلى للقوات المسلحة

The true wealth of a nation lies in its youth; one that is equipped with education and knowledge and which provides the means for building the nation and strengthening its principles to achieve progress on all levels.

His Highness Sheikh Mohamed bin Zayed Al Nahyan
Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces

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Abu Dhabi Vocational Education & Training Institute



معهد التكنولوجيا التطبيقية
INSTITUTE OF APPLIED TECHNOLOGY

UNITED ARAB EMIRATES
MINISTRY OF EDUCATION



الإمارات العربية المتحدة
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PRECISE



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Dear Competitors,

I would like to welcome you to the 2019 edition of the EmiratesSkills National Competition that, *under the patronage of **Her Highness Sheikhha Fatima Bint Mubarak**, Chairwoman of the General Women's Union, Supreme Chairwoman of the Family Development Foundation and President of the Supreme Council for Motherhood and Childhood* will take place on 15th to 17th April 2019 at ADNEC.

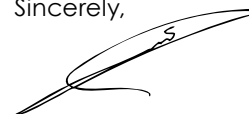
I extend to each of you my congratulations on being selected to participate to this challenging experience and showcase your skills in front of a wide audience of students, experts and representative of the major industries in UAE. This is going to be a great opportunity for you to measure your abilities. Your skills will especially contribute to the improvement of the standards functional to the development of new economic sectors and a more globally competitive UAE.

The 2019 edition will celebrate the Emirati talents: you represent the best skilled youths of UAE in technical and vocational education. Your skills can play a greater part to the realization of the visions of our Leaders. Your passion and dedication to your discipline can inspire your peers and the youngsters to embrace the same career pathway and join you in creating a sustainable local workforce that will craft the future developments of our Country.

I wish all of you to succeed and achieve the goals you have set for your future career.

So, get ready for the challenge!

Sincerely,



Ali Al Marzouqi
President of EmiratesSkills



The skills of the young generation are the most valuable national asset functional to the development of new economic sectors and a more globally competitive UAE

Forging the National Workforce

Through the National Competition EmiratesSkills is committed to prepare the national workforce to serve the industrial and technological growth of the UAE towards the achievement of Abu Dhabi Economic Vision 2030 and UAE Vision 2021.

EmiratesSkills operates under the umbrella of the Abu Dhabi Centre for Technical and Vocational Education and Training (ACTVET).

EmiratesSkills aims to raise awareness of career-based technical education among young Emiratis through organizing competitions, events, and technical career activities, and enhancing the skills of Emirati youths in technical and vocational education by providing them with opportunities to meet the challenge of participating in skills competitions at national, regional and international level.

EmiratesSkills is a member of



The Celebration of Emirati Excellence

The National Competition 2019 is the UAE premier event that celebrates the outstanding Emirati talents in technical and vocational skills and inspires the young generation to get passionate about new trades and embrace technology-based career pathways.

You are the Main Show!

Talented, highly competitive, smart, creative and techno-savvy: these are the competitors of the EmiratesSkills National Competition.

You are one of the more than **400 Emirati youths** that in this edition will demonstrate their skills in **49 categories** in the field of craftsmanship and technology by challenging their peers based on the standards and judging criteria of WorldSkills International.

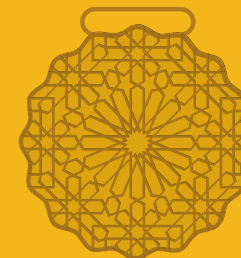
The Competition consists of more than **20 hours test** which contents and technical requirements vary from category to category. The Competition fields are constantly supervised by technical experts in order to assure the abidance to the competition terms and regulations.

At the end of a **three-days competition divided in 3 sessions**, the performance of the competitors is assessed by a jury panel of selected experts for each category. The first three positions of each category are selected applying measurements criteria based on the official standards of World Skills International.



**100%
EMIRATI
TALENT**

Awards



WORLD SKILLS OFFICIAL SKILL CATEGORIES

RANK	MARK RANGE	INDIVIDUAL TEAM	GROUP TEAM
GOLD			
Rank -1	100	10,000	5,000
Rank -2	95 - 99	9,000	4,500
Rank -3	90 - 94	8,000	4,000
SILVER			
Rank -1	86 - 89	7,000	3,500
Rank -2	83 - 85	6,000	3,000
Rank -3	80 - 82	5,000	2,500
BRONZE			
Rank -1	76 - 79	4,000	2,000
Rank -2	73 - 75	3,000	1,500
Rank -3	70 - 72	2,000	1,000

JUNIOR / SPECIAL NEEDS and OTHER SKILL CATEGORIES

MEDAL	MARK RANGE	INDIVIDUAL TEAM	GROUP TEAM
Gold	90 - 100	5,000	2,500
Silver	80 - 89	4,000	2,000
Bronze	70 - 79	3,000	1,500

*all payment is in AED.

Lunch Break

GROUP 1

Timing: 12:00 pm - 1:00 pm

1. Information Network Cabling
2. IT Network Systems Administration
3. Fashion Technology
4. Jewellery
5. Electrical Installations
6. Landscape Gardening
7. Painting and Decorating
8. Refrigeration and Air Conditioning
9. Electronics
10. Mechanical Engineering CAD
11. Mobile Robotics
12. Aircraft Maintenance
13. Car Painting
14. Public Speaking
15. Mobile Application
16. Game Development
17. Drones: Build & Fly
18. Electronics: Design and Build
19. Web Design for Junior
20. Mobile Robotics for Junior
21. 3D Digital Game Art for Junior
22. Electronics for Junior
23. Carpentry for the Determined
24. Print Media/Advertising for the Determined
25. Fashion Technology for the Determined

GROUP 2

Timing: 1:00 pm - 2:00 pm

1. IT Software Solutions for Business
2. Web Design
3. Graphic Design Technology
4. Plastering and Drywall Systems
5. CNC Turning
6. Welding
7. Health and Social Care
8. Cooking
9. Automobile Technology
10. Pneumatic Engineering
11. Creative Media Production
12. Traditional Competition
13. Cyber Security
14. Programming
15. Renewable Energy
16. Artificial Intelligence
17. Electrical Installations for Junior
18. Graphic Design Technology For Junior
19. IT Software Solutions for Business for Junior
20. Floristry for Junior
21. Mechanical Engineering CAD for Junior
22. 3D Digital Game Art for the Determined
23. Floristry for People the Determined
24. Landscape Gardening for the Determined

Competition Program

Venue: Abu Dhabi National Exhibition Center (ADNEC), 10, 11 & ICC Hall

GROUP 1 SCHEDULE

COMPETITION DAY 1

Monday, 15th April 2019

8:00am – 9:00am

Competition Familiarization

9:00am – 12:00pm

Competition – Session 1

12:00pm – 1:00 pm

Break

1:00pm – 5:00pm

Competition – Session 2

COMPETITION DAY 2

Tuesday, 16th April 2019

8:00am – 12:00pm

Competition – Session 3

12:00pm – 1:00pm

Break

1:00pm – 5:00pm

Competition – Session 4

10:00am

Official Opening

COMPETITION DAY 3

Wednesday, 17th April 2019

9:00am – 12:00pm

Competition – Session 5

12:00pm – 1:00pm

Break

1:00pm – 4:00pm

Competition – Session 6

GROUP 2 SCHEDULE

COMPETITION DAY 1

Monday, 15th April 2019

8:00am – 9:00am

Competition Familiarization

9:00am – 1:00pm

Competition – Session 1

1:00pm – 2:00 pm

Break

2:00pm – 5:00pm

Competition – Session 2

COMPETITION DAY 2

Tuesday, 16th April 2019

8:00am – 1:00pm

Competition – Session 3

1:00pm – 2:00pm

Break

2:00pm – 5:00pm

Competition – Session 4

10:00am

Official Opening

COMPETITION DAY 3

Wednesday, 17th April 2019

8:00am – 1:00pm

Competition – Session 5

1:00pm – 2:00pm

Break

2:00pm – 4:00pm

Competition – Session 6

AWARDS CEREMONY

Thursday, 18th April 2019

11:00am - 12:30pm

Venue: Al Maa'ed Hall



حقائق
سريعة
Quick
facts

15,000+ Visitors

18,000 m² Competition Area

49 Chief Experts

200+ Judges

49 Competitions

400+ Competitors

Media coverage by major national media and press

SKILLS LIST

No.	Skills Name	Skills Name
1	IT Software Solutions for Business	حلول برمجيات تقنية معلومات الشركات
2	Information Network Cabling	توصيل كابلات شبكات المعلومات
3	IT Network Systems Administration	إدارة نظم شبكات تقنية المعلومات
4	Web Design	تصميم مواقع الإنترنت
5	Fashion Technology	تقنية الأزياء
6	Graphic Design Technology	تقنية التصميم الجرافيكي
7	Jewellery	صياغة الحلبي والمجوهرات
8	Electrical Installations	التوصيلات الكهربائية
9	Landscape Gardening	تصميم وتنسيق الحدائق
10	Plastering and Drywall Systems	أعمال الجبس والأسقف المستعارة
11	Painting and Decorating	الدهان والديكور
12	CNC Turning	الخراطة بمؤازرة الحاسب الآلي
13	Refrigeration and Air Conditioning	التبريد والتكييف
14	Electronics	الإلكترونيات
15	Mechanical Engineering CAD	الرسم الهندسي الأوتوكاد
16	Mobile Robotics	الروبوتات المتحركة
17	Welding	اللحام
18	Health and Social Care	الرعاية الصحية والاجتماعية
19	Cooking	الطهي
20	Aircraft Maintenance	صيانة محركات الطائرات
21	Automobile Technology	تقنية السيارات
22	Car Painting	صبغ السيارات
23	Pneumatic Engineering	هندسة الهواء المضغوط
24	Public Speaking	فن الخطابة
25	Creative Media Production	الإبداع في الإنتاج الإعلامي
26	Traditional Competition	مسابقة المهارات التقليدية

No.	Skills Name	Skills Name
27	Mobile Application	تطبيقات الهاتف المتحرك
28	Cyber Security	أمن الشبكات
29	Programming	البرمجة
30	Game Development	تطوير الألعاب
31	Drones: Build & Fly	بناء طائرات بدون طيار
32	Electronics: Design and Build	الإلكترونيات، تصميم وبناء
33	Renewable Energy	الطاقة المتجددة
34	Artificial Intelligence	الذكاء الاصطناعي
35	Web Design for Junior	تصميم مواقع الإنترنت للصغار
36	Electrical Installations for Junior	التوصيلات الكهربائية للصغار
37	Graphic Design Technology For Junior	تقنية التصميم الجرافيكي للصغار
38	IT Software Solutions for Business for Junior	حلول برمجيات تقنية معلومات الشركات للصغار
39	Mobile Robotics for Junior	الروبوتات المتحركة للصغار
40	Floristry for Junior	تنسيق الزهور للصغار
41	3D Digital Game Art for Junior	تصميم الألعاب الرقمية ثلاثية الأبعاد للصغار
42	Electronics for Junior	الإلكترونيات للصغار
43	Mechanical Engineering CAD for Junior	الرسم الهندسي الأوتوكاد للصغار
44	Carpentry for the Determined	النجارة لأصحاب الهمم
45	Print Media/Advertising for the Determined	الدعاية والإعلان المطبوع لأصحاب الهمم
46	Fashion Technology for the Determined	تقنية الأزياء لأصحاب الهمم
47	3D Digital Game Art for the Determined	تصميم الألعاب الرقمية ثلاثية الأبعاد لأصحاب الهمم
48	Floristry for the Determined	تنسيق الزهور لأصحاب الهمم
49	Landscape Gardening for the Determined	تصميم وتنسيق الحدائق لأصحاب الهمم



مؤسسة الإمارات للطاقة النووية
Emirates Nuclear Energy Corporation

شركة بركة الأولى ش.م.ع
Barakah One Company PJSC



شركة نواة للطاقة
Nawah Energy Company



Powering the future

Through the UAE Peaceful Nuclear Energy Program, we are transforming the nation by contributing to our long-term economic and social growth.



25%
of the UAE's
electricity demand
will be produced
by the Barakah
Nuclear Energy Plant



21 million tonnes
of carbon emissions
will be prevented,
equivalent to removing
3.2 million cars
annually



60%
of our workforce
comprises talented
UAE Nationals



500+
students have
graduated from an
ENEC sponsored
educational program



1,500
UAE companies have
successfully secured
contracts totaling more
than US \$3.8 billion

**Powering the future growth and prosperity of the UAE through
a safe and sustainable peaceful nuclear energy program**



WEAR SAFETY GLASSES

Foresight is better than no sight. During operation, any power tool can throw foreign objects and harmful chemicals into your eyes. Always put on safety glasses or eye shields before starting up the Turning Center. Safety glasses or shields should provide full protection at the sides, as well as the front of the eyes.

KNOW YOUR MACHINE TOOL

Keep the Turning Center User's Guide readily accessible for quick reference. Know the intended applications and limitations of the Turning Center as well as its hazards.

KEEP THE SAFETY SHIELD IN PLACE

The safety shield should remain in place whenever the spindle motor is on or the cross slide is moving.

REMOVE ADJUSTING KEYS AND WRENCHES

Make it a habit to check that keys and adjusting wrenches are removed from the Turning Center before turning on the machine.

KEEP THE WORK AREA CLEAN

Cluttered work areas and bench tops invite accidents.

KEEP UNTRAINED VISITORS AWAY FROM THE EQUIPMENT

Children and visitors unfamiliar with the hazards of rotating machinery should always be kept away from the work area.

PREVENT UNAUTHORIZED USERS FROM OPERATING THE TURNING CENTER

Lock and remove the key from the Turning Center Controller Box when the system is not in use.

**DO NOT FORCE A TOOL**

Select the feed rate and depth of cut best suited to the design, construction and purpose of the cutting tool. It is always better to take too light a cut than too heavy a cut.

USE THE RIGHT TOOL

Select the type of cutting tool best suited to the lathe operation. Don't force a tool or attachment to do a job it wasn't designed to do.

DRESS APPROPRIATELY

Don't wear loose clothing or jewelry which can get caught in moving parts. Wear a hat or hair net, or tie your hair back to keep it away from moving parts.

SECURE THE WORKPIECE

Be certain that you have firmly secured the work piece and the cutting tool before turning on the spindle motor.

DO NOT OVERREACH

Keep your footing and balance at all times so you won't fall into or grab the moving machine.

MAINTAIN CUTTING TOOLS IN TOP CONDITION

Keep cutting tools sharp and clean. Lubricate and clean Turning Center components on a regular basis.

DISCONNECT TOOLS BEFORE SERVICING

Always use the emergency stop switch to disconnect power and disable the spindle motor before mounting or removing the work piece, or changing tools. Do not rely solely on a programmed Pause command to disable Turning Center operation.

AVOID ACCIDENTAL STARTING

Make sure the power switch on the controller box is off before plugging in the power cord.

USE RECOMMENDED ACCESSORIES

To avoid stressing the Turning Center and creating a hazardous machining environment, use only those accessories designed for use with the Turning Center, available through Light Machines Corporation.

TIGHTEN ALL HOLDING, LOCKING AND DRIVING DEVICES

Tighten the chuck. Do not over tighten tool holding devices. Over tightening may damage threads or warp parts, thereby reducing accuracy and effectiveness.

KEEP COOLANT AWAY FROM ELECTRICAL COMPONENTS

Do not allow coolant to splash into or near the computer.

DO NOT OPERATE THE MACHINE UNDER THE INFLUENCE OF MEDICINE

Medicine may impair your judgment and reaction time, which could contribute to an on-the-job accident.

AVOID DISTRACTIONS WHILE RUNNING THE MACHINE

Use simple common sense and pay attention while operating any piece of machinery.

USING DESKTOP COMPUTERS / LAPTOPS / PRINTERS/ PLOTTERS

If the category is dealing with desktop computers, printers/plotters and a number of design tools. To ensure your personal safety, do the following:

BEFORE THE COMPETITION STARTS

Read the competition Health and Safety Regulations' manual and be familiar with the safety rules and instructions with regards to machine safety, electrical safety and other requirements for personal protective safety equipment.

DURING THE COMPETITION

- Make sure that no working materials interface with the adjacent competitor's and that your actions don't obstruct his/her work.
- Leave sufficient space for other persons/competitors when using the same machine.
- Keep all passages free of litter and unnecessary items.
- Keep your work area clean and tidy.
- Follow the safety precautions related to the tools/machines you are using during the competition.
- No drinks are allowed while working on the computer.



DRESS CODE

Only female students are allowed to wear the traditional dress. For male students uniform policy is strictly enforced.

Purpose:

The purpose of the dress code policy is that all the participants maintain the respect of UAE social and cultural values.

EmiratesSkills is under a professional educational environment and this fact should be reinforced through the professional appearance of all participants to the competition.

EmiratesSkills requires all competitors to be aware of their appearance and in addition to being particular with their own personal hygiene. All participants must dress appropriately to maintain decorum contributing to an atmosphere of high standard of professionalism.

Responsibilities:

The responsibility for the effective application of this policy lies with:

- **EmiratesSkills Committees Members**
- **Competitors**

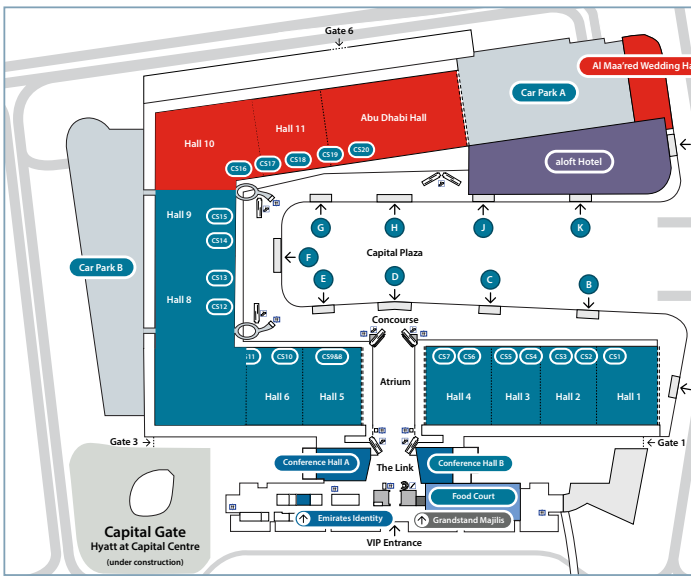
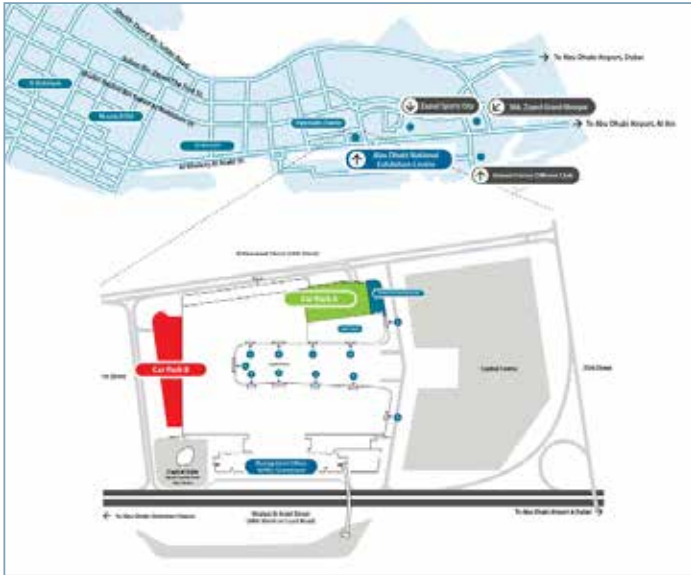
Classification of Appropriate Clothing / Appearance

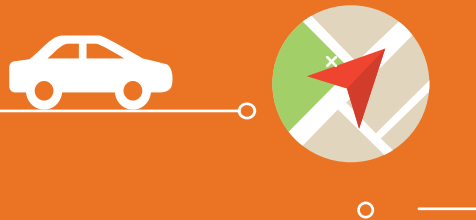
Male Dress/Appearance	Female Dress/Appearance
Well-groomed	Attention to care of body hygiene
Attention to care of body hygiene	Official Uniform - Polo t-Shirt (Optional)
* Official Uniform - Polo t-Shirt and blue jeans	* Official Armband or Labcoat or specific Uniform according to competition category official requirement
EmiratesSkills Polo Shirt and blue jeans for the male competitors	Abaya & sheila
* Overall or Labcoat or specific Uniform according to competition category official requirement	* Non-slippery Shoes according to competition category official requirement
* Training Shoes - Non-slippery Shoes according to competition category official requirement	'Niquab' must not be worn for security reasons

* MANDATORY

LOCATION MAP

Coordinates: 24°25'05.84"N - 54°26'12.98"E



**Address:**

Abu Dhabi National Exhibitions Company
Khaleej Al Arabi Street
(also known as Coast Road or 30th Street)
P.O. Box 5546
Abu Dhabi, United Arab Emirates



DIRECTIONS BY CAR

Directions from Abu Dhabi's Corniche:

Khaleej Al Arabi Street (also known as Coast Road/30th Street) and Rashid Bin Saeed Al Maktoum St (also known as Airport Road) are the two main highways that link Abu Dhabi City Centre / Corniche with ADNEC.

Directions via Rashid Bin Saeed Al Maktoum Street (Airport Road):

Travel along Airport Road from the Corniche (heading out of Abu Dhabi) until you reach the cross street numbered 29. Go over this street and take the next exit off to the right towards 'East Road' and 'Coast Road'. At the roundabout take the first exit. Pick up signs to the exhibition centre and follow directions to the adjacent multi-storey car parks.

Directions via Khaleej Al Arabi Street:

Travel along Khaleej Al Arabi Street from the Corniche (heading out of Abu Dhabi) until you pass the iconic Capital Gate tower and exhibition centre on your left hand side. As you pass ADNEC you need to move into the right hand lane and take the next exit signed towards 'Corniche' and 'Rashid Bin Saeed Al Maktoum Street'. Pick up signs to the exhibition centre and follow directions to the adjacent multi-storey car parks.

From Dubai:

The journey from to ADNEC from Jebel Ali, Dubai should take no more than 45 minutes. Leave Dubai on the Sheikh Zayed Road (E11), following the signs for Abu Dhabi/ Jebel Ali. As you leave the emirate of Dubai and enter the emirate of Abu Dhabi the name of the road changes to the Sheikh Maktoum Bin Rashid Road. You stay on this road for approximately 30 minutes, passing Al Raha Mall on your right and the 'coin-shaped' HQ building. About 5 minutes after passing the mall move to the right hand lane. Exit the Sheikh Maktoum Bin Rashid Road, following the signs for Abu Dhabi (E22). Stay in the right hand lane and continue to follow the signs for Abu Dhabi (E22). Once on the E22, continue over Al Maqtaa Bridge, at this point the iconic Sheikh Zayed Mosque should be on your left. You will now be on Airport Road, continue along for 2km until you reach a set of traffic lights (a park will be on your left hand side). Continue straight passing an ADNOC petrol station on your right, and a Carrefour supermarket on your left side. Take the immediate exit to the right after the supermarket, following the signs to the exhibition centre. At the roundabout take the fourth exit and follow signs to the adjacent multi-storey car parks.

From Al Ain:

Head out of Al Ain on E22 following signs to Abu Dhabi, use Mussafah Bridge to cross onto the island. You will be on Khaleej Al Arabi Street, continue past Sheikh Zayed Mosque and Zayed Sports City on your right hand side and pick up signs for the Exhibition Centre. Follow the signs to the exhibition centre and directions to the adjacent multi-storey car parks.



PRAYER FACILITIES IN THE VENUE

ADNEC has designated Male and Female prayer rooms with washing facilities.

The Prayer Rooms are located on Level 1, near the Business Centre and on Level 1 by the Aloft Hotel.



ACCOMMODATION

For those Competitors and Experts that reside outside the city of Abu Dhabi, EmiratesSkills provides the accommodation for the duration of the competition.

Further information about the selected hotels (location and contact details) will be provided by the administration via email.

Hotels:

Pearl Rotanna	+971 2 307 5555
Centro Capital Centre	+971 2 409 6666
Aloft	+971 2 654 5000

The accommodation includes breakfast. Lunch will be at the competition venue.

Chief Experts

Check-in date: 14-04-2019

Check-out date: 18-04-2019

All others (Experts, Workshop Manager, Competitors, Supervisors)

Check-in date: 15-04-2019

Check-out date: 18-04-2019

For any enquires about accommodation arrangements kindly refer to

Abdulrahman Rais

Abdulrahman.Rais@emiratesskills.ae

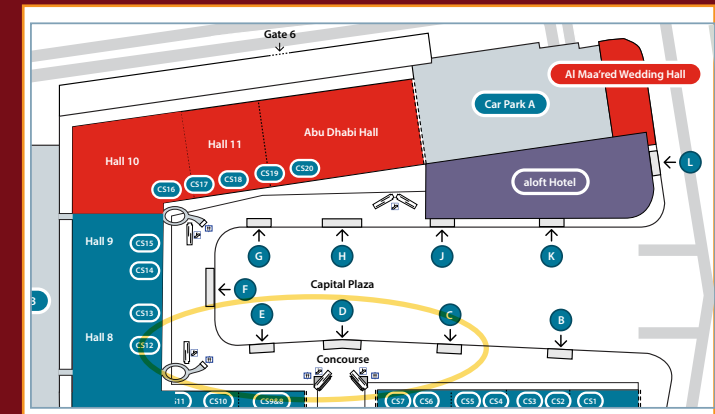
Mobile: 054-4431715



Catering

EmiratesSkills provides the meals to all the Competitors and Experts during the duration of the Competition.

You will enjoy a delicious lunch in the designated areas as per the following details:



● AL MAA'RED HALL

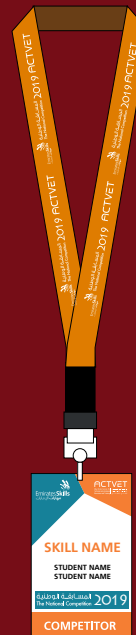
Group 1

From 12:00 - 1:00

Group 2

From 1:00 - 2:00

Note: Badges should be presented before entering the catering area.

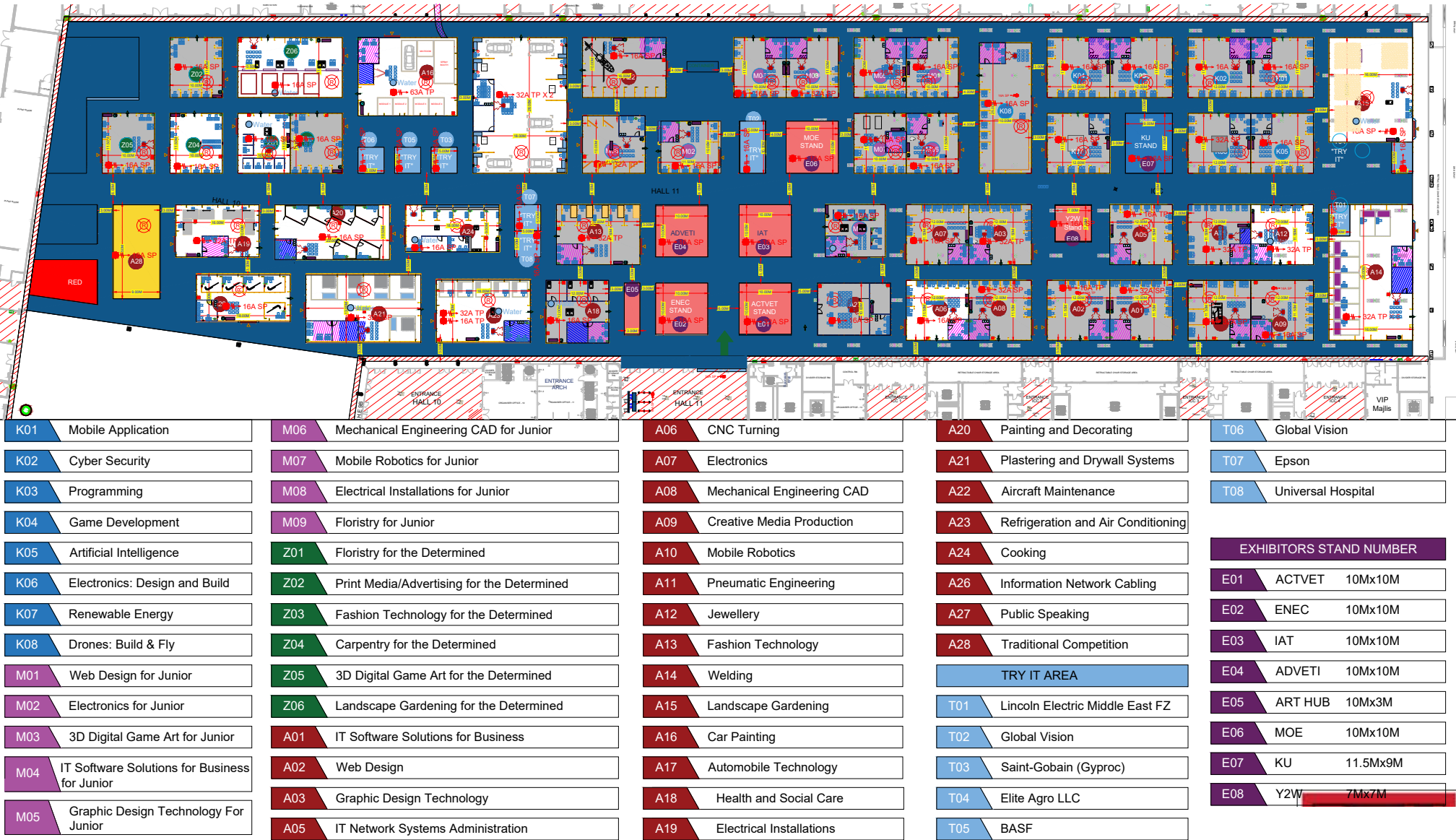


WHO IS WHO

Name	Committee Name	Contact no.
Mohamed Alali	Head of Project	050 2222706
Yanal Al Khasoneh	Head of Information Technology Committee	056 1882021
Fahar AlSuwaidi	Head of the Build-up Committee	056 1882010
Ghanim Salim Ajaif	Head of Security	056 1882167
Mohamed Basheer	Head of Technical Committee	056 188 2012
Abdullah Alyaqoobi	Head of Volunteers Committee	054 443 9839



FLOOR PLAN



STAY TUNED FOR THE **BIG** **CHALLENGE!!**



Highlights



@emiratesskills
emiratesskills.ae