



ITU-GSMA Joint Online Capacity Building Course on 5G — The Path to the Next Generation for the Arab and Africa Regions

15 – 17 December 2020 (12:00 to 15:00 PM)

COURSE OUTLINE

COURSE DESCRIPTION

Title	Training Course on 5G — The Path to the Next Generation for the Arab and Africa Regions
Method of delivery	Online
Course Overview and Objectives	<p>Course Overview</p> <p>The mobile industry is preparing to embark on the transition to fifth generation (5G) technology, which will build on the achievements of 4G while also creating new opportunities for innovation. 5G will usher in a new era that will see connectivity become increasingly fluid and flexible. This 3-days course covers the key aspects of 5G technology and examines the role governments and regulators can play in helping unlock the benefits of future 5G services for their citizens.</p> <p>Course Objectives</p> <ul style="list-style-type: none">• Learn about the underlying technologies and concepts associated with 5G.• Discover the key differences between 5G and previous generations of mobile technology.• Understand how governments and regulators can help accelerate the development of 5G technology and services in their countries.
Dates	15-17 December 2020
Duration	3 Days (3 hours/day)
Registration deadline	13 December 2020
Training fees	Free of Charge
Course code	200I24806MUL-E

LEARNING OUTCOMES

At the end of the course, participants will be able to:

- Learn about the underlying technologies and concepts associated with 5G.
- Discover the key differences between 5G and previous generations of mobile technology.

- Understand how governments and regulators can help accelerate the development of 5G technology and services in their countries.

TARGET POPULATION

This course is open to:

- Regulators
- Policy-makers
- Representatives from academia and international organizations working on regulatory or policy issues

The course is only open to those involved in policy and regulation from ICTs ministries and regulators of Arab and African countries.

The course is accredited by the United Kingdom Telecommunications Academy, an internationally recognised centre of excellence in the provision of academic, technical and vocational education in Telecommunications

TUTORS/INSTRUCTORS

NAME OF TUTOR(S)/INSTRUCTOR(S)	CONTACT DETAILS
<p>Dr. Jyrki Penttinen is Senior Technology Manager at GSMA, North America office. Dr. Penttinen has worked on mobile telecommunications in Finland, Spain, Mexico, and the USA. His past employers include Telia Sonera, Nokia, and G+D Mobile Security Americas. He is experienced in research and operational activities such as planning, optimization, measurements, system architectures, and services. Since 2014, he focused on security solutions and developing industry trends. At present, he assists operator members with the adoption, design, development, and deployment of GSMA specifications and programmes. Dr. Penttinen has also authored various books on 5G and other telecommunication technologies.</p>	<p>jpenttinen@gsma.com</p>
<p>Mr. Niall Magennis In his role as Senior Director at the GSMA, Niall oversees the development of the course content for the Capacity Building and Advance training programmes. He also acts as a trainer for several of the GSMA's training courses and edits the Mobile Policy Handbook, the publication detailing all of the GSMA's public policy positions.</p>	<p>nmagennis@gsma.com</p>

EVALUATION

- I. Post Test.
- II. Case Study.
- III. Quizzes.

TRAINING SCHEDULE AND CONTENTS / AGENDA

Day1: Day 1: Setting the scene: Introducing the 5G era [3 hours]	Time; Start time	Topics/Activities
15/12/2020	12:00 - 15:00	Session 1: Development of 5G era <ul style="list-style-type: none"> • Welcome, introductions • Introducing the 5G era • The Development of Mobile Technology • Q&A
		BREAK
		Session2: Use Cases <ul style="list-style-type: none"> • Initial Use Cases: eMBB, FWA, IoT, URLLS • Q&A
Day 2: Business models and strategies [3 hours]	Time; Start time	Topics/Activities
16/12/2020	12:00 - 15:00	Session 3: Status, business models <ul style="list-style-type: none"> • Global 5G Spectrum and deployment status, forecasts • Business models • Q&A
		BREAK
		Session 4: Deployment options and enablers <ul style="list-style-type: none"> • Deployment strategies • Key technical enablers • Q&A
Day 3: Spectrum, transition strategies [3 hours]	Time; Start time	Topics/Activities
17/12/2020	12:00 - 15:00	Session 5: 5G bands The status of 5G spectrum across the globe <ul style="list-style-type: none"> • 2G/3G Rationalisation • Q&A
		BREAK
		Session 6: Safety and capacity considerations <ul style="list-style-type: none"> • 5G and RF-EMF • The Capacity Challenge • Q&A

METHODOLOGY

The on-line program will include Instructor-led presentations, Case Studies, Group Exercises, and Quizzes.

COURSE COORDINATION

GSMA Training Coordinator: **ITU Coordinators:**

Ms. Aanchal Paliwal
GSMA
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Programme Officer
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REGISTRATION

ITU Academy portal account

Registration and payment should be made online at the ITU Academy portal.

To be able to register for the course you MUST first create an account in the ITU Academy portal at the following address:

<https://academy.itu.int/index.php/user/register>

Training registration

When you have an existing account or created a new account, you can register for the course online at the following link: <https://academy.itu.int/index.php/training-courses/full-catalogue/itu-gsma-online-5g-capacity-building-course-arab-and-africa-regions>

You can also register by finding your desired course in our training catalogue <https://academy.itu.int/index.php/training-courses/full-catalogue>