Training course outline

ITU and GSMA Capacity Building

Title	5G -The Path to the Next Generation
Modality	Online instructor-led
Dates	22nd September -20 October 2022
Duration	4 weeks
Registration deadline	15th September 2022
Training fees	Free (regulators and policy makers only)
Description	The mobile industry is embarking on the transition to fifth-generation (5G) technology, which builds on the achievements of 4G while also creating new opportunities for innovation. 5G is ushering in a new era that will see connectivity become increasingly fluid and flexible. This four-week 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.
Code	22OI500024MUL-E-D

1. LEARNING OBJECTIVES

- 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.

2. LEARNING OUTCOMES

- Understand the development of the 5G era
- Examine 5G use cases
- Understand the global status of 5G and forecasts for future growth
- Learn about deployment strategies and evolution

3.TARGET POPULATION

Name of tutor(s)/instructor(s)	Contact details
Faisal Zia	Capacitybuilding@gsma.com

Regulators and Policy Makers of the Telecommunications Field.

4.ENTRY REQUIREMENTS

Regulators, government officials and policy makers only.

Operators and commercial organizations not allowed.

5.TUTORS/INSTRUCTOR

Faisal Zia

6.TRAINING COURSE CONTENTS

Week 1

Session 1: The development of the 5G era

1. The expectations for the 5G era
2. How 5G will develop over the coming years

3. The timeline for the development of a new generation of mobile technology
4. The lifecycle of a generation of mobile technology
5. GSMA vision of the 5G Era
6. Future services
7. How 4G evolution plays an integral role in the 5G system
8. Coexistence of 4G and 5G

Week 2

Session 2: 5G use cases

1. How mobile broadband will evolve under 5G
2. Why Fixed Wireless Access is relevant in the 5G Era
3. How Fixed Wireless Access complements enhanced Mobile Broadband
4. How enhanced capabilities provided by 5G can be used to create services
5. Industry sectors and use cases that can be addressed

Week 3

Session 3: The global status of 5G and forecasts for future growth

1. Current advancements on the road to 5G
2. Spectrum allocation
3. Forecasts on adoption rates

Week 4

Session 4: Deployment strategies and evolution

1. Different 5G deployment options
2. Use case driven 5G deployment paths
3. Considerations in 5G deployment and migration

7.TRAINING COURSE SCHEDULE

Week / Session	Topic	Exercises and interactions
Week 1	**Session 1: The development of the 5G era** 1. The expectations for the 5G era 2. How 5G will develop over the coming years 3. The timeline for the development of a new generation of mobile technology 4. The lifecycle of a generation of mobile technology 5. GSMA vision of the 5G Era 6. Future services 7. How 4G evolution plays an integral role in the 5G system	Quiz 1
Week 2	**Session 2: 5G use cases** 1. How mobile broadband will evolve under 5G 2. Why Fixed Wireless Access is relevant in the 5G Era 3. How Fixed Wireless Access complements enhanced Mobile Broadband 4. How enhanced capabilities provided by 5G can be used to create services 5. Industry sectors and use cases that can be addressed	Quiz 2
Week 3	**Session 3: The global status of 5G and forecasts for future growth** 1. Current advancements on the road to 5G	Quiz 3

	2. Spectrum allocation 3. Forecasts on adoption rates	
Week 4	**Session 4: Deployment strategies and evolution** 1. Different 5G deployment options 2. Use case driven 5G deployment paths 3. Considerations in 5G deployment and migration	Quiz 4 and live chat session with the course trainer

8.METHODOLOGY (Didactic approach)

The course will include online sessions, case studies' review, exercises, tutor/participants live chat session the final day of the course and final test.

9.EVALUATION AND GRADING

Final Test (Essay 500-700 words) 80% pass grade

10.TRAINING COURSE COORDINATION

Course coordinator:
Name: Andrea Guajardo
Email address: aguajardo@gsma.com