



Training Course Outline
GSMA Capacity Building delivered through ITU Academy

Title	Radio Signals and Health
Modality	Online instructor-led
Level	Introductory
Dates	2-3 May 2023
Duration	2 days (6 hours in total – 3 hours per day)
Language	English
Region	World or Multi-Regional
Registration type	Application and selection
Registration deadline	25 April 2023
Training fees	Free (regulators and policy makers only)
Description	The effect of radio transmissions on health has been studied extensively, leading to international standards for network antennas and exposure limits for workers and the public. Despite the ever-growing body of scientific knowledge, many people continue to be concerned about electromagnetic fields (EMFs) and their impact on health.
Training topics	Spectrum management and Communications management
Certification	Certificate
Code	23OI100180MUL-E

1.TARGET POPULATION

The training is addressed to regulators and policy makers of the telecommunications field.

2.ENTRY REQUIREMENTS

None. Participants do not need prior knowledge to take this course.



3. TRAINING OBJECTIVES AND OUTCOMES

- Summarize public concerns and the accumulated knowledge about the health effects of EMFs.
- Describe internationally accepted safety requirements for radio transmissions.
- Respond to public safety concerns and increase awareness of the science.

4. METHODOLOGY

The course will include instructor-led presentations, case studies' discussion, exercises, tutor/participants discussion and submission of an essay the second day of the course.

5. ASSESSMENT AND GRADING

The training will be assessed with a final test consisting of the submission of an essay (500-700 words) with a pass grade of 80%.

6. TRAINING DETAILS & INSTRUCTIONAL APPROACH

Day / Week / Module	Sessions/Topics covered	Key learning points	Training activities details
Day 1	Session 1: Radio Signals – Sources and Health Research	<ul style="list-style-type: none">• What are electromagnetic fields (EMFs)?• Why are people concerned about possible health risks?• What do we know from existing research?• Reliable sources of information	Group Discussion
Day 2	Session 2: Human Exposure Limits for Radio Signals	<ul style="list-style-type: none">• International exposure limits for workers and the public: for devices, for	Individual exercise: Calculating exposure levels and compliance distances



		<p>network antennas</p> <ul style="list-style-type: none"> • Assessment of compliance: for devices, for network antennas • Choosing measurement equipment • Reporting results and public communication • 	
Day 2	Session 3: Application of EMF Risk Communication Techniques	<ul style="list-style-type: none"> • Drivers of risk perception • The issue lifecycle • Ten principles for risk communication 	Group exercise: Risk communication in practice

7. TUTORS/INSTRUCTORS

Name of tutor(s)/instructor(s)	Contact details
Dr. Jack Rowley	jrowley@gsma.com

8. TRAINING COURSE COORDINATION

<p>Course coordinator: Name: Andrea Guajardo Email address: aguajardo@gsma.com</p>	<p>ITU coordinator: Name: Emil Iuga Email address: hcbmail@itu.int</p>
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