OneWeb

Online Training Course on

Low Earth Orbit Communication Satellites and Activity
15-16 July 2021

TRAINING COURSE OUTLINE

COURSE DESCRIPTION

Title	Low Earth Orbit Communication Satellites and activity
Objectives	A general introduction course about the LEO communication satellites, how such solutions can provide ubiquitous connectivity and bridge the digital divide.
Dates	15-16 July 2021
Duration	2 days from 2 PM to 5 PM (CEST, GMT+2, UTC+2)
Registration deadline	July 8th 2021
Training fees	USD 0
Course code	21OI26646MUL-E

DESCRIPTION OF THE TRAINING COURSE

The course provides a general introduction about how LEO communication satellites work, a description of space and ground segment, the various use cases LEO satellites enable, and different aspect of local and international regulations applicable to their operations.

LEARNING OUTCOMES

Upon completion of this course, participants will be able to:
- Have a better understanding of how LEO satellite communication works
- Key differences between LEO, MEO and GEO satellites
- High level understanding of Space and Ground segment of a Non-geostationary satellite orbit (NGSO).
- Best practices in terms of regulation and policy to enable LEO constellations

TARGET POPULATION

The target audience for this course is ICT/Telecommunications regulators and policy makers with an interest in connectivity and satellite communications.

ENTRY REQUIREMENTS

No prior knowledge or qualification in satellite communication is required, however it is important for participants to be working for a regulator or policy makers

Course is presented in English

TUTORS/INSTRUCTORS

NAME OF TUTOR(S)/INSTRUCTOR(S)
Yvon Henry - RRB
Laith Hamad
Ruth Pritchard-Kelly
Ivan Zaitsev
Peng Zhao

TRAINING COURSE CONTENTS

- Introduction to LEO Satellites
- Use cases for LEO communications
- Space segment
- Ground Segment
- Radio Regulation and ITU filling procedure
- Policy and regulatory best practices

TRAINING COURSE SCHEDULE

Week / Session	Topic	Exercises and interactions

Day 1	- Introduction to LEO Satellites
	    o Distinguish from other satellites
	    o Compare current LEO systems
	- Use cases for LEO communications
		- Read of the PPT slides for day 1
		- Attend online session

		Radio Regulation and ITU filling procedure	**14:00h-17:00h** (CEST) - Complete a quiz
Day 2		- Space segment - Ground Segment - User Terminals - Network design and security - Policy and regulatory best practices	- Read of the PPT slides for day 2 - Attend online session **14:00h-17:00h** (CEST) - Complete a quiz

METHODOLOGY (Didactic approach)

This course will be delivered using instructor-led online learning. The course is delivered using power-point slides posted on the course page. Each presentation will be followed by Q&A via chat at the end each of the session.

EVALUATION AND GRADING

Quiz (70%) + participation (30%)

Pass mark is 70% to obtain the ITU certificate

TRAINING COURSE COORDINATION

Course coordinator:	**ITU coordinator:**
Name: Peng Zhao Email address: pzhao@oneweb.net	Name: Aminata Amadou Garba Email address: aminata.amadou-garba@itu.int

REGISTRATION

ITU Academy portal account

Registration 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/user/register

Training course 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/training-courses/full-catalogue/low-earth-orbit-communication-satellites-and-activity

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