



**ITU Centres of Excellence Network for Asia-Pacific
China Academy of Information and Communications Technology**

Online Training Course on

Conformity and Interoperability relating to 5G

11-23 October 2021

TRAINING COURSE OUTLINE

COURSE DESCRIPTION

Title	Conformity and Interoperability relating to 5G
Objectives	<ul style="list-style-type: none">• To introduce the regulatory framework of Certification & Network Access• To build knowledge to participants with the key and main aspects of 5G technologies, including the access network, antenna, etc.• To introduce and build the knowledge of 5G testing technologies and protocols, including the user equipment and system equipment.
Dates	11-23 October 2021
Duration	2 Weeks
Registration deadline	10 October 2021
Training fees	Free
Course code	21OI26620ASP-E

DESCRIPTION OF THE TRAINING COURSE

This course will support the participants to understand the regulatory framework of Certification & Network Access to acquire the general knowledge of Conformance and Interoperability (C&I). This course will also develop the knowledge on key 5G technologies and 5G testing technologies and protocols, such as user equipment and system equipment.

LEARNING OUTCOMES

The course is expected to achieve the following outcomes:

- Understand basic C&I frameworks, the development and implementation of conformity assessment programmes;
- Understand the progress of the ITU's Conformance and Interoperability programme, the standardisation work in ITU on 5G and other standard organisations;
- 5G testing technologies and protocols, including the user equipment and system equipment.

TARGET POPULATION

The training is targeted at Information and Communication Technologies (ICT) professionals, engineers, decision-makers from the government and regulatory agencies, telecommunication companies and academia who are interested to learn about the implementation and regulation of Conformity and Interoperability relating to 5G. Professionals or students with no previous ICT background that are seeking to understand this subject are also welcome to participate.

ENTRY REQUIREMENTS

The participants are expected to have basic knowledge of ICT.

TUTORS/INSTRUCTORS

Experts from CAICT, operators, telecom equipment providers and other partners.

TRAINING COURSE CONTENTS

The training course will cover the following contents:

1. The regulatory framework of Certification & Network Access; The ITU C&I Programme
2. Introduction of the Chinese Development of Technology Standards for Network Equipment with New Technology
3. Test specification and certification requirement for 5G User Equipment
4. The testing technology of 5G base station
5. Challenges on 5G Massive MIMO and RF OTA test

TRAINING COURSE SCHEDULE

Week / Session	Topic	Exercises and interactions
Week 1	The regulatory framework and the technology standards relating to C&I	Quiz will be provided to evaluate the learning effects of participants, and tutors will be online to respond any questions raised by participants.
Week 2	Testing technologies and protocols about the different components of 5G network	Quiz will be provided to evaluate the learning effects of participants, and tutors will be online to respond any questions raised by participants.

METHODOLOGY (Didactic approach)

Course Materials: The relevant course material will be made available on the website, which will include presentations, practical cases introduction, etc.

Online Discussion Forums: Participants are expected to participate actively in discussion forums on selected topics throughout the week.

Chat Sessions: Online chat sessions with the Tutor will take place on Wednesday from 14:00 – 15:00 Hrs. Beijing Time (GMT +8). All participants are expected to join the chat sessions to interact with tutors.

Quizzes: 2 mandatory online quizzes will be held at the end of each week of the course

Assignment: There will be a mandatory assignment for the course

EVALUATION AND GRADING

Besides the tests and their assignment score, participants will be evaluated according to their substantive posts on the discussion forum and other course activities, reflecting both the quantity and quality of time spent on the course. The evaluation details and criteria for certificates is as follows.

Quiz1:	30%
Quiz2	30%
Individual Assignment	20%
Discussion Forum1	10%
Discussion Forum2	10%
Total Evaluation:	100%

IMPORTANT: A PASSING MARK OF 60% IS REQUIRED FOR OBTAINING A COMPLETION CERTIFICATE.

TRAINING COURSE COORDINATION

Course coordinator: Name:WANG Ying Email address: wangying@caict.ac.cn	ITU coordinator: Name:Sean Sharidz Doral Email address: sean.doral@itu.int
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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/conformity-and-interoperability-relating-5g>

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