



TU CENTRES OF EXCELLENCE NETWORK FOR ASIA AND THE PACIFIC REGION
China Academy of Information and Communications Technology

Face-to-face Training Course on
“Conformity and Interoperability relating to Smart City”
18-21 September 2019, Guangzhou, China

COURSE OUTLINE

COURSE DESCRIPTION

Title	Conformity and Interoperability relating to Smart City
Method of delivery	Face-to-face
Objectives	<ul style="list-style-type: none">• To equip participants with an understanding of ITU’s work in the area of conformity and interoperability as well as Conformity assessment principles;• To equip participants with an understanding of policy, supervision, requirement in relation to conformity assessment and interoperability;• To build knowledge base of the participants on development trends related to smart cities and its standardization progress, latest technologies and security related issues on interoperability of smart city.
Dates	18-21 September 2019
Duration	Four days
Registration deadline	18 August 2019
Training fees	Free with support from the China Academy of Information and Communication Technology (China)
Course code	19WS24398ASP-E

LEARNING OUTCOMES

Upon completion of this training, participants will be able to

- Understand the development and implementation of conformity assessment programmes;
- Understand the basic C&I framework for ICT technology focusing on what to do and how to do;

- Understand the development and practices in smart city including the infrastructures, application technology and conformity assessment methods.

TARGET AUDIENCE

This training is targeted at managers, engineers and employees from regulators, government organisations, telecommunication companies and academia, who are interested in understanding the implementation of conformity and interoperability including technologies, standardization, regulation and content. Other institutions and individuals that are interested in building their capacity related to conformity and interoperability are also welcome to participate.

FACILITATOR/EXPERTS

NAME OF TUTOR(S)/INSTRUCTOR(S)	CONTACT DETAILS
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EVALUATION

The assessment of the participants shall be based on the time spent on the training and the following parameters:

Evaluation Parameter	Weightage (in %)
Quizzes and presentations	60 %
Attendance	10 %
Participation	30 %

The minimum passing requirement for certificate is 60%.

DRAFT TRAINING SCHEDULE AND CONTENTS / AGENDA

(Updated information will be available at <https://academy.itu.int/index.php/training-courses/full-catalogue/conformity-and-interoperability-relating-smart-city>)

18 th September 2019 (Day 1)	
09:00 – 09:30	Registration
09:30 – 10:30	Opening Ceremony
10:30 - 11:00	Coffee Break
11:00-12:00	Session 1-1: Global and ITU C&I standard system <ul style="list-style-type: none"> ▪ Introduction to the global and ITU C&I standard system and C&I programme ▪ Impact of IOT on C&I
12:00 – 14:00	Lunch Break
14:00-15:00	Session 1-2 : Introduction of China's conformity assessment system <ul style="list-style-type: none"> ▪ Basic concepts ▪ Conformity assessment process ▪ Certification for equipment ▪ Laboratory Management System ▪ The important role of standards
15:00 – 16:00	Session 1-3 :C&I in Member countries <ul style="list-style-type: none"> ▪ Presentations by participants on new technology policy & supervision, etc. in each country
16:00 – 16:30	Coffee Break
16: 30 – 17:30	Session 2-1: Infrastructures for Ubiquitous Sensing of Smart Cities <ul style="list-style-type: none"> ▪ Development of smart cities ▪ Infrastructures for sensing layer used in Smart Cities ▪ Discussions on problems and technical solutions of infrastructure arrangement and management
19 th September 2019 (Day 2)	
09:30 – 10:30	Session 2-2: How Internet of Things contributes to Smart Cities? <ul style="list-style-type: none"> ▪ Introduction to IoT Technology ▪ IoT—Foundation of Smart Cities ▪ Future Prospects of IoT Cities

10:30 - 11:00	Morning Break
11:00 –12:00	<p>Session 2-3: Big Data empowers Smart City</p> <ul style="list-style-type: none"> ▪ Data processing problems faced in the construction of smart city ▪ How big data makes city more "smart"? ▪ Outlook for big data smart city
12:00 – 14:00	Lunch Break
14:00 – 15:00	<p>Session 3-1: Smart City Cloud</p> <ul style="list-style-type: none"> ▪ Summary of Smart City ▪ Advantages of cloud computing in smart city ▪ Key architecture of smart city cloud ▪ Industry application of smart city cloud
15:00 – 16:00	<p>Session 3-2: Security situation and Testing Technology of Smart City Video Surveillance Equipment</p> <ul style="list-style-type: none"> ▪ Analysis on security risk of smart city video surveillance equipment ▪ Security situation of smart city video surveillance equipment ▪ Introduction on security testing technology of smart city video surveillance equipment
16:00 – 16:30	Afternoon Break
16:30-17:30	<p>Session 3-3: Development of New Network Equipment in Intelligent Cities</p> <ul style="list-style-type: none"> ▪ Demand of new technology & new network equipment in intelligent cities ▪ Application of new equipment in intelligent cities ▪ Introduction of Chinese smart city development and new tech standards ▪ New tech equipment quality assurance and evaluation
20th September 2019 (Day 3)	
09:30 –10:30	<p>Session 4-1: Introduction to Smart Energy System Framework and Standardization Activities in Smart Sustainable Cities</p> <ul style="list-style-type: none"> ▪ Analysis on principle of smart energy ▪ System framework of smart energy ▪ Application of smart energy in smart sustainable cities ▪ Standardization activities on smart energy
10:30 - 11:00	Morning Break
11:00 – 12:00	<p>Session 4-2: Electromagnetic Compatibility and Radio Spectrum matters of Smart Cities Devices and Systems</p> <ul style="list-style-type: none"> ▪ Analysis on the Electromagnetic fields in the Smart Cities ▪ EMC test in Smart Cities

	<ul style="list-style-type: none"> ▪ Discussion on Radio Spectrum matters
12:00 - 14:00	Lunch Break
14:00 – 15:00	Discussion
15:00 – 15:30	Afternoon Break
15:30 – 17:30	Summary (including Test)
	Evaluation for this training course
	Closing Ceremony
21st September 2019 (Day 4)	
09:30 – 12:00	Field visit
12:00 - 14:00	Lunch Break
14:00 –17:00	Field tour

METHODOLOGY

The face-to-face training course will include

- Instructor-led presentations,
- Case studies,
- Group exercises

TRAINING COORDINATION

ITU coordinator:

Mr. S. Ismail Shah

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REGISTRATION

Please complete the registration form available at <https://academy.itu.int/training-courses/full-catalogue/conformity-and-interoperability-relating-smart-city> and return it back to Miss Wei Jin (weijin@caict.ac.cn) with copy for information to Mr. S. Ismail Shah (ismail.shah@itu.int) **by 18 August 2019** at the latest.

ITU Academy portal account

Registration should also 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/training-courses/full-catalogue/conformity-and-interoperability-relating-smart-city>

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

Payment:

There is no training fees applicable for the course owing to the kind support of CAICT. However, participants are expected to bear all costs pertaining to their participation e.g. air travel, accommodation, meals, incidentals, insurance etc.