Training course outline

ITU

Title	Measuring digital development: Telecommunication/ICT indicators
Modality	Online self-paced
Dates	4 January– 31 December 2022
Duration	2 days if taken full-time. The training is self-paced and can be taken anytime during the dates indicated.
Registration deadline	24 December 2022
Training fees	free
Description	The training aims to strengthen the capacity of countries to produce ICT indicators and statistics according to international standards and methodologies. It presents the main groups of telecommunication/ICT indicators collected and the different questionnaires as well as the definition and methodologies of the indicators following the ITU Handbook for the collection of administrative data on telecommunications/ICT. Examples provided address data gaps and challenges faced by countries and suggests possible solutions.
Code	22OS28007MUL-E

1.LEARNING OBJECTIVES

The objective of the training is to strengthen the capacity of countries to produce national statistics on telecommunications and ICTs

2. LEARNING OUTCOMES

Participants representing telecommunication regulators and ministries should be able to collect and compile ICT data from operators or telecommunication service providers according to the standards set by the ITU Handbook for the collection of administrative data on telecommunications/ICT. Participants completing the course will have a state-of-the-art understanding of the key methodological considerations, challenges, and global standards applied for collecting globally comparable data for the following five domains of ICT indicators:
•   Module 1: fixed-telephone network indicators;
•   Module 2: Mobile-cellular network indicators;
•   Module 3: Internet, traffic and bundled services indicators;
•   Module 4: Financial, broadcasting and Quality of Service (QoS) indicators;
•   Module 5: ICT Prices indicators.

This will be acquired by following the videos for each module, performing exercises and answering to polls to reinforce the understanding of the concepts, and answering quizzes at the end of the end of each module.

3.TARGET POPULATION

The training is intended for participants who are responsible for collecting and/or producing such statistics in ministries, regulatory agencies, and national statistical offices around the world. Telecommunication analysts and researchers, as well as the press and students will also find the training useful in understanding the telecommunications market and services, and for monitoring and benchmarking digital development.

4.ENTRY REQUIREMENTS

Basic concept of the telecommunication industry is required to follow the course. In particular, interested participants should have an understanding of the market share and services offered by the operators and Internet service providers in the country.

5.TUTORS/INSTRUCTORS

Name of tutor(s)/instructor(s)	Contact details
Esperanza Magpantay, Daniel Vertesy	indicators@itu.int

6.TRAINING COURSE CONTENTS

The *ITU Handbook for the Collection of Administrative Data on Telecommunications/ICT* is a key reference document for the collection and analysis of internationally comparable indicators on telecommunications/ICT based on administrative sources (i.e., supply-side data mainly from operators). The Handbook include, concepts, definitions and methodological clarifications for more than 100 internationally agreed and sub-indicators indicators, discussed by the Expert Group on Telecommunication/ICT Indicators (EGTI). The Handbook was released at the 11th Meeting of the Expert Group on Telecommunication/ICT Indicators (EGTI) in September 2020.

The training systematically covers the concepts and indicators defined in the Handbook, explaining definitions and the methodologies to apply for data collection. The schedule below outlines the contents of each of the 5 Modules.

7.TRAINING COURSE SCHEDULE

Session	Topic	Exercises and interactions
Session 0	Presentation - global introduction	Q&A forum
Session 1	Few issues on collection, compilation, dissemination	
Module 1	Fixed-telephone network indicators	4 Videos + 2 quiz blocks + Poll + Q&A
Session 2	Fixed network coverage	

Session 3	Fixed telephone subscriptions (total)	
Session 4	Fixed telephone subscriptions, by technology	
Session 5	Fixed telephone subscriptions /Urban; Residential; Fixed number portability	
Module 2	Mobile-cellular network indicators	5 Videos + 4 quiz blocks + flashcards + Q&A
Session 6	Mobile cellular subscriptions- voice and Portability	
Session 7	Mobile broadband subscriptions	
Session 8	Mobile network coverage	
Session 9	Data services: M2M subscriptions	
Session 10	Spectrum: allocated, assigned	
Module 3	Internet, traffic and bundled services	8 Videos + 5 quiz blocks + Q&A + flashcards
Session 11	International bandwidth: equipped, usage, domestic	
Session 12a	Fixed internet and broadband subscriptions	
Session 12b	Leased lines	
Session 13	Bundles	
Session 14	Fixed telephone traffic	
Session 15	Mobile network traffic	
Session 16	Mobile roaming traffic: voice and messages (in/out)	
Session 17	Internet traffic: fixed and mobile networks	
Module 4	Financial, broadcasting and QoS Indicators	5 Videos + 2 quiz blocks + game on terminology + Q&A
Session 18a	Employment	
Session 18b	Investment	
Session 19	Revenues	
Session 20	Multichannel TV subscriptions, by technology	
Session 21	Quality of Service (QoS)	
Module 5	ICT Prices indicators	Videos + 1 quiz block + Poll + Q&A
Session 22a	ICT Prices – Overview	
Session 22b	ICT Prices – mobile-cellular basket rules	

	ICT Prices – data-only mobile-broadband, mobile-broadband data and voice basket rules	
Session 22c		
Session 22d	ICT Prices – fixed-broadband basket and rules	
Session 27	Conclusion	

8.METHODOLOGY (Didactic approach)

This course is the online version of an established face-to-face training series offered by the ITU in the context of technical trainings and workshops, and is based on the *ITU Handbook for the collection of administrative data on telecommunications/ICT 2020*, which reflects the state-of-the art international standard used by ITU and regulators for monitoring and benchmarking purposes.

The course constitutes of instructor-led presentations with examples, pre-recorded on videos and accompanied by course material (presentation slides and extracts of the Handbook), enabling participants to follow sessions at own pace. The course is structured into five Modules (1-5) that refer to five key domains of telecommunication/ICT indicators (such as fixed-broadband networks, mobile-broadband networks, Internet, traffic and bundled services; finance, broadcasting and QoS, or ICT prices).

A forum will remain open throughout the course allowing participants to raise questions concerning any of the session or module. Users attending the course will be able to use the forum where questions will be regularly answered by the instructors.

9.EVALUATION AND GRADING

Each of the five course modules will be concluded by a test (multiple-choice questions, quizzes, or small computation exercises). Participants successfully passing a test (reaching the 60% pass mark) will receive a badge specific to the Module. Participants collecting all five badges, thus completing the entire coursework, will be entitled to receive a certificate of accomplishment.]

10.TRAINING COURSE COORDINATION

Course coordinator:	**ITU coordinator:**
Name: Esperanza Magpantay and Daniel Vertesy Email address: indicators@itu.int	Name: Elena Stankovska-Castilla Email address: elena.stankovska-castilla@itu.int