



ITU Centres of Excellence Network for Africa
African Advanced Level Telecommunications Institute (AFRALTI)
Online Training Course on
Digital Broadcasting Masterclass
7 June-2 July 2021

COURSE OUTLINE

COURSE DESCRIPTION

Title	Digital Broadcasting Masterclass
Objectives	<p>This course “Digital Broadcasting Masterclass” shall share with participants’ important spectrum regulations for broadcasting and how to manage and operate broadcasting frequencies in an efficient and economical manner. Broadcasting Services are very important for national development in each country. Both FM Radio and TV Services are used to convey messages to the citizens on public awareness, political, economic and social issues. The Media industry relies on Radio and TV bands to do business. It is very important that FM Radio and TV Bands are managed efficiently and equitably distributed to Broadcasters. There is need for proper planning and frequency management to avoid harmful interference and unlicensed emissions.</p> <p>The objectives of the training course are to:</p> <ul style="list-style-type: none">• Provide officers with skills to plan, manage and monitor radio broadcasting operators and service providers• Learn ITU-R Regulations for Broadcasting and• Familiarize with best practices of broadcasting planning and engineering
Dates	7 June-2 July 2021
Duration	20 Days
Registration deadline	6 June 2021
Training fees	USD960
Course code	21OI26512AFR-E

LEARNING OUTCOMES

After completing this course, the participant will be able to:

- Plan and implement broadcasting plans and manage broadcast stations effectively
- Assign and manage broadcast frequencies for Terrestrial and Satellite services.
- Implement the latest FSS and BSS regulations from WRC.

TARGET POPULATION

This training is targeted at personnel from regulators, broadcasters, digital signal distributors, policy makers in the government and academia who are interested in understanding well the Broadcast Spectrum Management.

TUTOR/INSTRUCTOR

NAME OF TUTOR(S)/INSTRUCTOR(S)	CONTACT DETAILS
Dr John Mpapalika	Email: mpapalikaj2016@gmail.com Tel: +255 762 545 228
Jonathan Mwakijele	Email: Jmwakijele@afraiti.org Tel: +254 718 860 897

EVALUATION

Centre of Excellence shall grant certificate of achievement based on assessment tests undertaken during, and at the end of, each training. In this regard, Centre of Excellence shall develop assessment tools for this training. The tools should include the following:

- Regular assessments quizzes

Only candidates who have successfully completed all the assessments quizzes shall be awarded the ITU Academy Certificate.

TRAINING SCHEDULE AND CONTENTS / AGENDA

Training schedule and content (online training)

DAY	MODULE TITLE	TOPICS
1	Introduction to Radio Propagation	<ul style="list-style-type: none">• Introduction to Radio Propagation
2	Broadcasting Services and Bands	<ul style="list-style-type: none">• Broadcasting Services• Broadcasting Bands
3	Broadcast Policy and Regulations	<ul style="list-style-type: none">• Broadcasting Policy• Broadcasting Regulations
4	ITU-R Standards and Regulations for Broadcasting	<ul style="list-style-type: none">• ITU-R Standards for Broadcasting• ITU-R Regulations for Broadcasting
5	Digital Broadcasting Network	<ul style="list-style-type: none">• Digital Broadcasting Network
6		<ul style="list-style-type: none">• Digital Broadcasting Network (Cont.)
7	Broadcasting Frequency Planning	<ul style="list-style-type: none">• Broadcasting Frequency Planning
8		<ul style="list-style-type: none">• Broadcasting Frequency Planning (Cont.)
9	TV White Spaces	<ul style="list-style-type: none">• TV White Spaces
10		<ul style="list-style-type: none">• TV White Spaces (Cont.)
11	Monitoring of FM Broadcast Stations	<ul style="list-style-type: none">• Monitoring of FM Broadcast Stations
12		<ul style="list-style-type: none">• Monitoring of FM Broadcast Stations (Cont.)
13	IPTV and other Cable TV Services	<ul style="list-style-type: none">• IPTV
14		<ul style="list-style-type: none">• Other Cable TV Services
15	Broadband Satellite Broadcasting Services	<ul style="list-style-type: none">• Broadband Satellite Broadcasting Services
16		<ul style="list-style-type: none">• Broadband Satellite Broadcasting Services (Cont.)
17	Mobile Broadcasting Services	<ul style="list-style-type: none">• Mobile Broadcasting Services
18		<ul style="list-style-type: none">• Mobile Broadcasting Services (Cont.)
19	5G Frequency Plans and Broadcasting Frequencies	<ul style="list-style-type: none">• 5G Frequency Plans
20		<ul style="list-style-type: none">• Broadcasting Frequencies

METHODOLOGY

This course shall be conducted fully online. There will be Instructor led training, lectures, case studies and quizzes. All participants must do all the quizzes and pass in order to get a certificate from ITU. The tutor will deliver live lectures through ZOOM on every Thursday and Friday from 10:00 HRS to 12:00 HRS Geneva, Switzerland Time. This will be opportunity for participants to interact directly with the tutor and ask questions and discuss different topics covered online in that week.

TRAINING SCHEDULES AND CONTENT AGENDA

WEEK	ACTIVITIES	EXERCISES AND QUIZ
WEEK 1	Read week 1 topics: <ul style="list-style-type: none">• Introduction to Radio Propagation• Broadcasting Services and Bands• Broadcast Policy and Regulations• ITU-R Standards and Regulations for Broadcasting• Digital Broadcasting Network Participate in weekly forum and live discussion on Wednesday	Do all quizzes in week 1
WEEK 2	Read week 2 topics: <ul style="list-style-type: none">• Broadcasting Frequency Planning• TV White Spaces Participate in weekly forum and live discussion on Wednesday	Do all quizzes in week 2
WEEK 3	Read week 3 topics: <ul style="list-style-type: none">• Monitoring of FM Broadcast Stations• IPTV and other Cable TV Services• Broadband Satellite Broadcasting Services Participate in weekly forum and live discussion on Wednesday	Do all quizzes in week 3
WEEK 4	Read week 4 topics: <ul style="list-style-type: none">• Mobile Broadcasting Services• 5G Frequency Plans and Broadcasting Frequencies Participate in weekly forum and live discussion on Wednesday	Do all quizzes in week 4

TRAINING COORDINATION

Training Coordinator: Mr. Jonathan P. Mwakijele Head of Management, Policy and Regulatory Unit AFRALTI Tel : +254 718 860 897 Email: Jmwakijele@afralti.org	ITU coordinator: Mr. Emmanuel Niyikora Programme Officer ITU Area Office for West Africa, Dakar Tel : +250 788312939 Email: emmanuel.niyikora@itu.int
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REGISTRATION AND PAYMENT

ITU Academy portal account

Registration and payment 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/index.php/user/register>

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/index.php/training-courses/full-catalogue/digital-broadcasting-masterclass-3>

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

Payment

1. On-line payment

A training fee of USD 960 per participant is applied for this training. Payment should be made via the online system using the link mentioned above for training registration at <https://academy.itu.int/index.php/training-courses/full-catalogue/digital-broadcasting-masterclass-3>

Payment by bank transfer

Where it is not possible to make payment via the online system, select the option for offline payment to generate an invoice using the same link as above. Download the invoice to make a bank transfer to the ITU bank account shown below. Then send the proof of payment/copy of bank transfer slip and the invoice copy to Hcbmail@itu.int and copy the course coordinator. **All bank transaction fees must be borne by the payer.**

Failure to submit the above documents may result in the applicant not being registered for the training.

2. Group payment

Should you wish to pay for more than one participant using bank transfer and need one invoice for all of them, create an account as **Institutional Contact**. **Institutional Contacts** are users that represent an organization. Any student can request to be an institutional contact or to belong to any existing organization.

To do this, head to your profile page by clicking on the **“My account”** button in the user menu. At the bottom of this page you should see two buttons:

- a. If you want to **become an institutional contact**, click on the **“Apply to be an Institutional Contact”** button. This will redirect you to a small form that will ask for the organization name. After you fill the name of the organization you want to represent, click on **“continue”** and a request will be created. An ITU Academy manager will manually review this request and accept or deny it accordingly.
- b. If you want to **belong to an existing organization**, click on the **“Request to belong to an Institutional Contact”** button. This will redirect you to a small form that will ask you to select the organization you want to join from an organization list. After you select the correct organization, click on **“continue”**, a request will then be created. The Institutional Contact that represents that organization will manually accept or deny your request to join the organization.

ITU BANK ACCOUNT DETAILS:

Name and Address of Bank:	UBS Switzerland AG Case postale 2600 CH 1211 Geneva 2 Switzerland
Beneficiary:	Union Internationale des Télécommunications
Account number:	240-C8108252.2 (USD)
Swift:	UBSWCHZH80A
IBAN	CH54 0024 0240 C810 8252 2
Amount:	USD 960
Payment Reference:	CoE-AFR 26512 – P.40590.1.07

4. **Other method of payment**

If due to national regulations, there are restrictions that do not allow for payment to be made using options 1 & 2 above, please contact the ITU coordinator for further assistance.