



Training course outline

ITU and African Advanced Level Telecommunications Institute

Title	Digital Broadcasting Masterclass
Modality	This course will be delivered Online
Dates	1 – 26 August 2022
Duration	20 Days
Registration deadline	31 July 2022
Training fees	USD960
Description	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.
Code	22OI27994AFR-E

1. LEARNING OBJECTIVES

The objectives of the training course are to:

- 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

2. 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.

3. 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.

4. ENTRY REQUIREMENTS

No prior knowledge or qualification in Digital Broadcasting is required; however, it is important for participants to be working for a regulator, or in the ICT/Telecoms sector as a provider or consultant.

5. TUTORS/INSTRUCTORS

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

6. EVALUATION AND GRADING

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
- Forum participation
- End of course assignment

A candidate who attains at least a grade of 60% shall be awarded ITU Certificate.

7. TRAINING COURSE CONTENTS

MODULE TITLE	TOPICS
Introduction to Radio Propagation	<ul style="list-style-type: none">• Introduction to Radio Propagation
Broadcasting Services and Bands	<ul style="list-style-type: none">• Broadcasting Services• Broadcasting Bands

Broadcast Policy and Regulations	<ul style="list-style-type: none"> • Broadcasting Policy • Broadcasting Regulations
ITU-R Standards and Regulations for Broadcasting	<ul style="list-style-type: none"> • ITU-R Standards for Broadcasting • ITU-R Regulations for Broadcasting
Digital Broadcasting Network	<ul style="list-style-type: none"> • Digital Broadcasting Network
	<ul style="list-style-type: none"> • Digital Broadcasting Network (Cont.)
Broadcasting Frequency Planning	<ul style="list-style-type: none"> • Broadcasting Frequency Planning
	<ul style="list-style-type: none"> • Broadcasting Frequency Planning (Cont.)
TV White Spaces	<ul style="list-style-type: none"> • TV White Spaces
	<ul style="list-style-type: none"> • TV White Spaces (Cont.)
Monitoring of FM Broadcast Stations	<ul style="list-style-type: none"> • Monitoring of FM Broadcast Stations
	<ul style="list-style-type: none"> • Monitoring of FM Broadcast Stations (Cont.)
IPTV and other Cable TV Services	<ul style="list-style-type: none"> • IPTV
	<ul style="list-style-type: none"> • Other Cable TV Services
Broadband Satellite Broadcasting Services	<ul style="list-style-type: none"> • Broadband Satellite Broadcasting Services
	<ul style="list-style-type: none"> • Broadband Satellite Broadcasting Services (Cont.)
Mobile Broadcasting Services	<ul style="list-style-type: none"> • Mobile Broadcasting Services
	<ul style="list-style-type: none"> • Mobile Broadcasting Services (Cont.)
5G Frequency Plans and Broadcasting Frequencies	<ul style="list-style-type: none"> • 5G Frequency Plans
	<ul style="list-style-type: none"> • Broadcasting Frequencies

8. METHODOLOGY (Didactic Approach)

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 every week on Tuesday and Thursday from 1500 Hours to 1700 Hours EAT. This will be opportunity for participants to interact directly with the tutor; ask questions and discuss different topics covered online in that week.

9. TRAINING COURSE SCHEDULE

WEEK	ACTIVITIES	EXERCIZES 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	Attend live lectures and discussion every week on Tuesday and Thursday. 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	Attend live lectures and discussion every week on Tuesday and Thursday. 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	Attend live lectures and discussion every week on Tuesday and Thursday. 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	Attend live lectures and discussion every week on Tuesday and Thursday. Do all quizzes in week 4

10. TRAINING COURSE COORDINATION

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