CCRT Course Structure

Courses	Module	Units
Course I: Understanding Community Radio (3 Credits/ 90 Hours)	Module 1 Community Radio: An Introduction	Unit 1: Community Radio: Concept and Evolution
		Unit 2: Context: Access and Equity
		Unit 3: Community Radio Policy Guidelines
		Unit 4: Technology for CR: Guiding principles
	Module 2 Setting up of CRS	Unit 5: Components of CR Station
		Unit 6: Radio waves and Spectrum
		Unit 7: Basics of Electricity
		Unit 8: Power backup and Voltage Stabilisation
Course II: CR Production: System & Technology (5 Credits- 150 Hrs)	Module 3 Studio Technology	Unit 9: Basics of Sound
		Unit 10: Analogue and Digital Audio
		Unit 11: Components of the Audio Chain
		Unit 12: Studio Acoustics
	Module 4 Audio Production	Unit 13: Audio hardware and Field Recording
		Unit 14: Free and Open Source Software
		Unit 15: Telephony for Radio
	Module 5 Audio Post Production	Unit 16: Sound Recording and Editing
		Unit 17: Mixing and Mastering
		Unit 18: File Formats and Compression
		Unit 19: Storing and Retrieval
	Module 6 Studio Operations	Unit 20: Good Engineering Practices for Studio Setup
		Unit 21: Studio Equipment: Preventive & Corrective maintenance
		Unit 22: Content Distribution: Alternative Mechanism
Course III: CR Transmission: System & Technology (2 Credits, 60 Hrs)	Module 7 Radio Transmission Technology	Unit 23: Components of Transmission Chain
		Unit 24: Components of FM Transmitter
		Unit 25: Antenna and Coaxial Cable
		Unit 26: Propagation and Coverage
	Module 8 FM Transmitter Set up	Unit 27: Transmitter setup: Step-by-step
		Unit 28: Transmission System- Preventive and Corrective maintenance
		Unit 29: Transmission setup-Good Engineering Practices
Course IV: Technical Internship (2 Credits, 60 Hrs)	Module 9 Practical Internship Handbook	Unit 30: 5 day hands-on Workshop- Handbook

About us:

The *Commonwealth Educational Media Centre for Asia (CEMCA)* is an international organization established by the Commonwealth of Learning (COL), Vancouver, Canada, to promote the meaningful, relevant and appropriate use of ICTs to serve the educational and training needs of Commonwealth member states of Asia. CEMCA receives diplomatic privileges and immunities in India under section 3 of the United Nations (privileges and immunities) Act, 1947.

CEMCA

For Further Information, contact:

Commonwealth Educational Media Centre for Asia (CEMCA)

13/14 Sarvapriya Vihar,
New Delhi- 110016, India
Ph. +91-11-26537146/ 48;
Fax: +91-11- 26537147
http://www.cemca.org.in
E-mail: admin@cemca.org.in

COMMONWEALTH OF LEARNING
Commonwealth Educational Media
Centre for Asia

Certificate in
Community Radio
TECHNOLOGY

Providing Technical Support
for Healthy Communities

Certificate in Community Radio
Technology

Background

CEMCA is associated with the community radio movement in India from its inception. Experience has revealed that while Community Radio Stations (CRS) are able to manage their production and management aspects, there is pressing need for technical guidance and support relating to running or setting-up a CRS and maintaining the basic equipment. The paucity of trained personnel at the local level makes them dependent on 'outside experts' even for elementary tasks. Getting trained professionals from metros for trouble shooting is expensive for CRS.

CEMCA has developed learning content at the level of a certificate programme for CR Technicians to help prepare a cadre of technical support persons at the local levels. This would in turn create new technical and vocational skill-based jobs and enhance the technical sustainability of CRS.

What is CCRT?

CCRT is a certificate course of 6 months duration. In partnership with BECIL, CEMCA has developed the learning materials for the 9 modules incorporating 30 Units and 12 Videos. The materials are available as Open Educational Resource for interested Indian institutions to start offering distance learning programme.

Highlights

Mode:	Open & Distance Learning (ODL)
Approach:	Blended
Award:	Certificate by ODL institutions
Level:	Certificate programme (Minimum 10th pass)
Duration:	6 months
Credit:	12 Credits (One credit is equal to 30 hrs of student study time)
Modules:	9
Units:	30
Videos:	12 (Also available in DVD)

Target groups

- Operating CRS team members handling production and technical issues;
- New CRS applicants/Letter of Intent (LOI) holders
- Community members volunteers who wish to increase their knowledge in technical aspects;
- Local service providers such as electricians, cable TV technicians, radio and TV mechanics who wish to enhance their skills and earning potential.

Learning Outcomes

The CCRT programme would enable the learners to:

- Explain the basics of community radio
- Setup studio equipment
- Apply various tools and techniques for effective maintenance of CRS
- Understand the basics of sound design, acoustics and sound proofing
- Apply the techniques of sound recording, production and post-production
- Explain the basics of spectrum issues, transmitter and antenna systems
- Identify the latest software and technologies for CRS
- Diagnose technical faults and seek correct technical help when needed
- Undertake preventive maintenance of the CRS

How can CEMCA help?

- Provide the learning content for use by interested institutions for adoption/ adaptation.
- Assist in capacity building of the educational institution for tutoring and practical work through partner institution.
- Make available the content online for use by any CRS and individual for self learning.