

DACUM Panel

1. Mr. Santosh Devkota, ICT/FM Network Technician, Equal Access Nepal, Kathmandu
2. Mr. Raj Rayamajhi, Production Technician, Head Lines & Music FM, Kathmandu
3. Mr. Adhash Joshi, Radio Technician, Gorkha FM, Gorkha
4. Mr. Jyoti Lal Rana, Sound Consultant, JRM FICMS Pvt. Ltd., Kathmandu
5. Mr. Tulasi Luitel, Electrician, SACMT, Lalitpur
6. Mr. Dipendra Khadka, Technician, Sky Energy Pvt. Ltd., Kathmandu
7. Mr. Bikesh Shrestha, Electrical Engineer, SACMT, Lalitpur
8. Mr. Shiva Ram Khadka, Computer Hardware Technician, Sky Tech, Newroad, Kathmandu
9. Mr. Deepak Acharya, Sound Consultant, Freelancer, Kathmandu
10. Ms. Kristina Neupane, Computer Instructor, SACMT, Lalitpur

DACUM Facilitator/Co-Facilitator

Mr. Ram Hari Devkota, Dy Director, NSTB, Sanothimi, Bhaktapur
Mr. Ishwar Chandra Ghimire, Skill Testing Officer, NSTB, Sanothimi, Bhaktapur

Verification Panel

1. Mr. Gopal Kumar Jha, MD, Headlines and Music FM 97.2, Pulchowk, Lalitpur
2. Mr. Ramesh Joshi, MD, Radio Triveni 100.6, Chitwan
3. Mr. Bikesh Shrestha, Electrical Engineer, SACMT, Lalitpur
4. Mr. Jyoti Lal Rana, Sound Consultant, JRM FICMS Pvt. Ltd., Kathmandu
5. Mr. Bishnu Rayamajhi, FM Technician, Freelancer, Kathmandu
6. Mr. Kumar Shrestha, Electrician, Gotthatar, Kathmandu
7. Mr. Mahesh Kumar Shrestha, Sound Technician, Freelancer, Kathmandu
8. Mr. Surya Man Shakya, FM Technician, Prime Broadcasting, Kathmandu
9. Mr. Deepak Shrestha, Sound Technician, Freelancer, Kathmandu
10. Mr. Raja Ram Prajapati, FM Technician, Birgunj FM, Birgunj

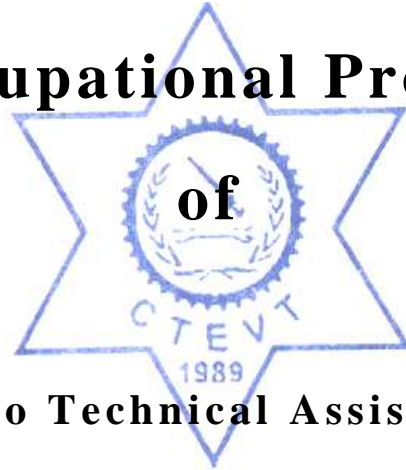
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Technical Sub-Committee

Prof. Dr. Jagan Nath Shrestha-Coordinator, Electronics Technical Committee, IOE, Pulchowk
Mr. Chandra Bhakta Nakarmi, - Member, Director, NSTB, Bhaktapur
Mr. Ram Saran Karki- Member, Former Chief Engineer, Radio Nepal, Kathmandu
Mr. Pradeep Kumar Upadhyay- Member, Sound Engineer, Sound Consultant, Kathmandu
Mr. Purswotam Manandhar- Member, Chief, Radio Nepal, Khumaltar Transmitting Station Kathmandu
Mr. Padma Jyoti Dhakhwa- Member, Managing Director, Broadcast Engineering Service Center, Kathmandu
Mr. Krishna Prasad Neupane – Member, Executive Director, South Asian College of Modern Technology Pvt. Ltd., Lalitpur
Mr. Deepak Prasad Poudel – Member, Dy. Director, NSTB, Sanothimi, Bhaktapur
Mr. Ram Hari Devkota – Member, Dy-Director, NSTB, Sanothimi, Bhaktapur
Mr. Ishwar Chandra Ghimire- Member, Skill Testing Officer, NSTB, Bhaktapur
Mr. Gobinda Paudel, - Member Secretary, Skill Testing Officer, NSTB, Bhaktapur

Occupational Profile



FM Radio Technical Assistant, L-1

(DACUM workshop on 17-18 June, 2011)

(Customized DACUM on 19 June, 2011)

(Technical Sub Committee meeting on 12 July, 2011)



Council For Technical Education and Vocational Training

NATIONAL SKILL TESTING BOARD

Madyapur Thimi 17, Sanothimi, Bhaktapur

Nepal

(NSTB approval on, 2011)

DUTIES and TASKS

A. Perform Simple Electrical Works

A1. Check cable continuity			A2. Check supply line voltage			A3. Connect cables/accessories			A4. Check/replace fuse system		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	3	3	1	3	3	1	3	3	2	1
A5. Check/replace light bulb			A6. Check/operate air conditioner			A7. Check grounding system					
Task rating			Task rating			Task rating					
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency			
3	1	1	3	1	2	3	1	1			

B. Perform Power Supply Works

B1. Check power supply from NEA gridline (single phase)			B2. Check power supply from NEA gridline (three phase)			B3. Check power supply from online/offline UPS/invertors			B4. Check/operate power supply from generator		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	1	3	1	1	3	1	2	3	2	3
B5. Check/operate power supply from solar PV system			B6. Check specific gravity of battery			B7. Check voltage of battery			B8. Perform battery charging		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	1	3	1	2	3	1	2	3	1	1

C. Operate Transmitter

C1. Switch on transmitter			C2. Check equipment temperature			C3. Check audio input level/deviation			C4. Check RF forward power		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	3	3	1	3	3	1	3	3	1	3
C5. Check RF reflected power			C6. Increase/decrease transmitting power								
Task rating			Task rating								
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency						
3	1	3	3	1	2						

D. Perform Simple Computer Operation

D1. Search content			D2. Organize play list			D3. Perform audio recording			D4. Edit content		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	3	3	1	3	3	1	3	3	1	3
D5. Save recorded sound			D6. Perform CD/DVD burning			D7. Operate antivirus			D8. Zip/unzip files		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	3	3	2	3	3	1	1	3	1	1
D9. Convert wave into MP3			D10. Extract audio from video			D11. Operate optical drives					
Task rating			Task rating			Task rating					
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency			
3	1	3	3	1	1	3	1	3			

E. Operate Audio Mixture and Microphone

E1. Monitor/adjust fader level			E2. Adjust audio input/output level			E3. Connect/adjust microphone position/direction			E4. Operate phantom power supply for condenser microphone		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	3	3	1	3	3	1	3	3	1	3
E5. Set equalizer			E6. Check audio cable & connector			E7. Check/replace headphone/microphone			E8. Set optional plug-ins		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	2	3	2	3	3	1	3	3	3	1

DUTIES and TASKS

F. Perform Sound Recording

F1. Select/open appropriate software			F2. Control audio level			F3. Record sound			F4. Edit audio		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	3	3	1	3	3	1	3	3	3	3
F5. Apply proper effects			F6. Perform audio mixing								
Task rating			Task rating								
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency						
3	3	3	3	3	3						

G. Perform Communication

G1. Communicate with presenter			G2. Facilitate with listener/guest speaker			G3. Communicate with seniors/sub-ordinates			G4. Communicate with marketing/news /program department		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	3	3	2	1	3	1	3	3	2	1
G5. Communicate with professional organization											
Task rating											
Importance	Difficulty	Frequency									
3	2	1									

Rating options:

1= Low

2= Medium

3= High

Additional Information for Job Title

<p><u>Worker's Traits</u></p> <p>Good Expression Polite Creative Punctual Helpful Neat and Tidy Sincere Attentive Healthy Hard working Faithful Confidential Patience Honest Sound Sensitive Professional aptitude</p>	<p><u>Entry Requirement</u></p> <p>390 hrs including 130 hrs OJT (3 months) training or as per NSTB rules</p>	<p><u>Career Path</u></p> <p>FM Radio Technician, L-2</p>
<p><u>Related Technical Knowledge</u></p> <p>Knowledge on :</p> <ul style="list-style-type: none"> • Basic electrical • Basic electronics • Multi-Meter its uses and importance • Different electrical, electronics, sound and RF tools and their uses • Electrical, electronics and sound symbols • Function of transmitter (exciter and power amplifier), console, audio processor, speaker and audio amplifier, feeder cable, antenna bays, grounding and filter. • Basic computer • Safety and hygiene • Basic of sound • Basic calculation • Handling of software • Types and uses of microphones, speaker, monitor and amplifier. • Different types of sound effects. • Manage play list. • Separation of audio from video. • MP3 and wave files. • Zip and unzip files. • Communication • Professionalism 	<p><u>Tools/Equipment</u></p> <p>Multi-meter Screw driver Knife Wire cutter Wire stripper Pliers Brush Scissors Tape Ruler Line tester Continuity tester Spanner Slide wrench Console/audio mixture Transmitter Microphone/headphone Amplifier/ speaker On air indicator Headphone amplifier/distributor Cable & jacks Computer CD/DVD player Microphone stand Inverter/UPS Battery Audio recorder Telephone hybrids Telephone Fuse and circuit breaker Switch and power socket Bulb/bulb holder Audio recording and mixing software (cool edit pro, adobe audition, sound forge, Winamp, 7-zip & audio video separator) SWR meter/power meter Dummy load Frequency counter</p>	