

DACUM Panel

1. Mr. Chharanu Chaudhari
Dhangadhi, Kailali
2. Mr. Sushil Kumar Chaudhari
Dhangadhi, Kailali
3. Mr. Ishowari Dutta Joshi
Dhangadhi, Kailali
4. Mr. Prem Bahadur Basnet
Dhangadhi, Kailali
5. Mr. Devraj Khanal
Dhangadhi, Kailali
6. Mr. Shiva Sapkota
Dhangadhi, Kailali
7. Ms. Sarika B.K.
Mahendranagar, Kanchanpur
8. Ms. Kalawati Bohara
Mahendranagar, Kanchanpur
9. Mr. Padam Pandey
Mahendranagar, Kanchanpur
10. Mr. Jectendra Tiruwa
Mahendranagar, Kanchanpur
11. Mr. Deepak Joshi
Mahendranagar, Kanchanpur
12. Mr. Uddhav Chand
Mahendranagar, Kanchanpur

DACUM Facilitator/Recorder

1. Mr. Baikuntha Shrestha
BSET, Balaju
2. Mr. Bhumaheshwor Ranjitkar
BSET, Balaju

Verification Panel

1. Mr. Hari Narayan Basi
Bhaktapur
2. Mr. Uttam Pd. Tiwari
Banasthali, Kathmandu
3. Mr. Basant Tiwari
Banasthali, Kathmandu
4. Mr. Mukund Upadhaya
Basundhara, Kathmandu
5. Mr. Manoj Shrestha
Thamel, Kathmandu
6. Mr. Bimal Raj Timalisina
Chabahil, Kathmandu
7. Mr. Bhuwan Lal Shilpakar
Kalanki, Kathmandu
8. Mr. Thakur Pd. Dhungana
Kalanki, Kathmandu
9. Mr. Nabin Kumar Basnet
Thamel, Kathmandu
10. Mr. Naresh Mali
Kalanki, Kathmandu
11. Mr. Raja Ram Prajapati
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Technical Sub-Committee

1. Prof. Dr. Jagannath Shrestha
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2. Mr. Chandra Bhakta Nakarmi
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3. Mr. Lal Bahadur Sunchuri
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8. Er. Gunananda Jha
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9. Mr. Ram Hari Devkota
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10. Mr. Santosh Mahaseth, Member
NSTB, Sanothimi, Bhaktapur
11. Mr. Dayaram Acharya, Mem.-Secretary
NSTB, Sanothimi, Bhaktapur

Occupational Profile



Color TV Receiver Repair Technician, L-1

(DACUM on 18-19 June, 2009)

(Task Verification on 20 June, 2009)



Council For Technical Education and Vocational Training

NATIONAL SKILL TESTING BOARD

Madyapur Thimi 17, Sanothimi, Bhaktapur

Nepal

(NSTB approval on, 2009)

DUTIES and TASKS

A. Repair power supply stage

A1. Check/replace line filter			A2. Check/replace voltage dependent resistance (VDR)			A3. Check/replace relay coil.			A4. Check/replace power regulator IC		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	3	3	3	1	3	3	3	3	3	3
A5. Check/replace MOSFET / Transistor or STR			A6. Check/replace opto-cupler			A7. Check/replace SMT (transformer)			A8. Check Relay coil		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	3	3	2	3	3	2	2	3	3	3
A9. Check/replace Thermistor (PTC)			A10. Check/replace degaussing coil								
Task rating			Task rating								
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency						
3	3	3	3	2	3						

B. Repair horizontal Stage

B1. Check/replace H. output transistor			B2. Check/replace driver transformer/transistor			B3. Check/replace high pass filter (HPF)			B4. Check/replace AFC.		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	3	3	3	3	3	3	2	3	3	3
B5. Check/replace E.H.T.			B6. Check/replace horizontal oscillator			B7. Check/replace horizontal deflection coil (HDC)			B8. Check/replace H. hold		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	3	3	3	2	3	3	1	3	3	2

C. Repair vertical Stage

C1. Check/replace V. output transistor			C2. Check/replace driver transformer/transistor			C3. Check/replace Low pass filter (LPF)			C4. Check/replace vertical oscillator		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	3	3	3	3	3	3	2	3	3	3
C5. Check/replace V. hold			C6. Check/replace vertical deflection coil (VDC)			C7. Check/replace vertical IC					
Task rating			Task rating			Task rating					
Importance	Difficulty	Importance	Difficulty	Frequency	Frequency	Difficulty	Frequency	Frequency			
3	3	3	3	2	2	3	2	2			

D. Repair VIF stage

D1. Check/replace saw filter			D2. Check AGC voltage			D3. Check/replace IF coil			D4. Check/replace Video detector		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	1	3	3	3	3	3	2	3	3	3

E. Repair audio stage

E1. Check & repair/replace speaker			E2. Check/replace Transistor			E3. Check/replace IC			E4. Check/replace variable resistor		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	1	3	2	1	3	2	3	3	3	3
E5. Check/replace output transformer											
Task rating											
Importance	Difficulty	Frequency									
3	2	1									

DUTIES and TASKS

F. Repair Video stage

F1. Check/replace control system (contrast, brightness & color)			F2. Check/replace cathod ray tube,LCD and TFT			F3. Check/replace video output transistor.			F3. Check/replace CCFL unit		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	2	3	3	2	3	3	3	3	3	2

G. Repair Cromag stage

G1. Check/replace RGB transistor			G2. Check/replace RGB driver			G3. Check/replace RGB IC					
Task rating			Task rating			Task rating					
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency			
3	2	1	3	1	1	3	3	3			

H. Repair Color TV tuner

H1. Check/replace co- axial jack			H2. Check tuner voltage			H3. Check/replace digital tuner			H4. Check/replace tuner band IC		
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	1	3	3	1	3	2	1

I. Repair system/ remote stage

I1. Check/replace TV sensor			I2. Check/replace system TV crystal			I3. Check/replace memory/ system IC			I4. Check/replace photo diode		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	1	3	1	1	3	3	3	2	2	1
I5. Check/replace remote crystal			I6. Change remote carbon sticker			I7. Check/replace battery connector					
Task rating			Task rating			Task rating					
Importance	Importance	Frequency	Importance	Importance	Difficulty	Importance	Importance	Difficulty			
3	3	1	3	3	2	3	3	2			

Rating options:

0= No

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, Tactful, Service Oriented, Healthy, Hard working, Faithful, Confidential, Patience, Kind</p>	<p><u>Entry Requirement</u></p> <p>Literate</p> <p>16 years old</p> <p>390 hrs (3months) training</p> <p>Or as per NSTB rules</p>	<p><u>Career Path</u></p> <p>Color TV Receiver Technician, L-2</p>
<p><u>Technical Knowledge</u></p> <ul style="list-style-type: none"> • Definition of electronics • Knowledge on voltage and current • Knowledge on Multi-Meter its uses and importance • Knowledge on different tools and their uses • Knowledge on symbols • Knowledge on basic electronic component parts • Knowledge on short form and full form • Knowledge on stage block diagram • Knowledge on color code • Knowledge on basic calculation • Knowledge on different units • Knowledge on de-solder. 	<p><u>Tools/Equipments/Materials</u></p> <p>Multi-meter Soldering iron De soldering pump/ wire Screw driver Twizer Knife Wire cutter Wire screeper Nose pliers Smooth File Brush Eye glass Mirror Aliner Soldering wire Glue stick Sand paper Scissor Tape Needle Ruler Paste Oscilloscope RF generator IC extractor Pattern Generator</p>	