

DACUM Panel

1. Mr. Bishwa Darshan Nepal, Outside Technician, Nepal Telecom, Network Project Implementation Department, Kupandol, Lalitpur
2. Mr. Harihar Ghimire, Outside Supervisor, Nepal Telecom, Network Project Implementation Department, Kupandol, Lalitpur
3. Mr. Bhakti Ram K.C., Telecom Technician, Nepal Telecom, Mobile Service Directorate, Pulchowk, Lalitpur
4. Mr. Ram Maharjan, Telecom Technician, Nepal Telecom, Wireless Telephone Directorate, Chhauni, Kathmandu
5. Mr. Hari Saran Nepal, Junior Technician, Nepal Telecom, Kathmandu Regional Directorate, Tripureshwor Development Section, Tripureshwor, Kathmandu
6. Mr. Man Bahadur Tamang, Junior Technician, Nepal Telecom, Patan, Lalitpur
7. Mr. Ram Gopal Pudasaini, Lineman, Nepal Telecom, Teku, Kathmandu
8. Mr. Amrita Adhikari Chhettri, Junior Technician, Nepal Telecom, Chhauni, Kathmandu

DACUM Facilitator/Recorder

Mr. Ishwar Chandra Ghimire, STO, NSTB
Mr. Ganga Gurung, STO, NSTB

Verification Panel

1. Mr. Maniram Sapkota, Outside Technician, Nepal Telecom, Gangabu, Kathmandu
2. Mr. Dilip Kumar Maharjan, Telecom Supervisor, Nepal Telecom, Power Department, Chhauni, Kathmandu
3. Mr. Maheshwor Khatri, Telecom Supervisor, Nepal Telecom, Patan, Lalitpur
4. Mr. Narayan Sen Oli, Telecom Supervisor, Nepal Telecom, Development Section, Kathmandu Regional Directorate, Kathmandu
5. Mr. Laxman Tandukar, Outside Supervisor, Nepal Telecom, Sundhara, Kathmandu
6. Mr. Ramesh Prasad Ghimire, Telecom Supervisor, Nepal Telecom, Wireless Telephone Directorate, Kathmandu
7. Mr. Rukmagat Chapagain, Telecom Supervisor, Nepal Telecom, Network Project Implementation Department, Kupandol, Lalitpur
8. Mr. Ram Bahadur Khati, Telecom Supervisor, Nepal Telecom, Network Project Implementation Department, Kupandol, Lalitpur
9. Mr. Harihar Ghimire, Outside Supervisor, Nepal Telecom, Network Project Implementation Department, Kupandol, Lalitpur
10. Mr. Bishwa Darshan Nepal, Outside Technician, Nepal Telecom, Network Project Implementation Department, Kupandol, Lalitpur

Facilitator/ Co-Facilitator:

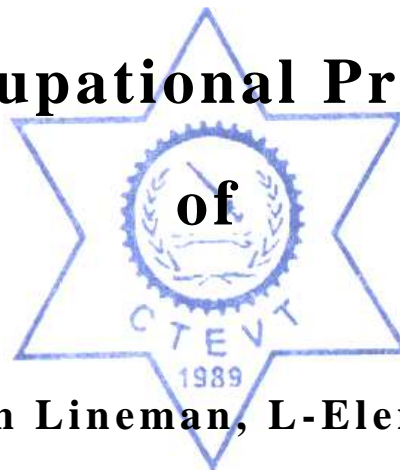
Mr. Ram Hari Devkota, Dy-Director, NSTB
Mr. Ishwar Chandra Ghimire, STO, NSTB

Technical Sub-Committee

Occupational Profile Development

1. Prof. Dr. Jagan Nath Shrestha-Coordinator, IOE, Pulchowk
2. Mr. Chandra Bhakta Nakarmi, Director, NSTB
3. Mr. Jhabindra Upadhyaya, Deputy Manager, Nepal Telecom, Optical Network Project, Hariharbhawan, Lalitpur
4. Mr. Shyam Bajracharya, Instructor, Nepal Telecom, Telecom Training Center, Babarmahal, Kathmandu
5. Mr. Harihar Ghimire, Outside Supervisor, Nepal Telecom, Network Project Implementation Department, Kupandol, Lalitpur
6. Mr. Maniram Sapkota, Outside Technician, Nepal Telecom, Gangabu, Kathmandu
7. Mr. Deepak Prasad Poudel, Dy. Director, NSTB
8. Mr. Ram Hari Devkota, Dy. Director, NSTB
9. Mr. Ishwar Chandra Ghimire, S.T.Officer, NSTB
10. Mr. Gobinda Poudel, S.T.Officer, NSTB
11. Mr. Santosh Mahaseth, S.T. Assistant, NSTB

Occupational Profile



Telecom Lineman, L-Elementary

Sector: Electronics Sub Sector: Telecommunication

(DACUM Workshop held on 16 & 17 November, 2011)

(Customized DACUM Workshop held on 19 November, 2011)

(Technical Sub Committee Meeting held on 28 November, 2011)



Council For Technical Education and Vocational Training

NATIONAL SKILL TESTING BOARD

Madyapur Thimi 17, Sanothimi, Bhaktapur

Nepal

(NSTB approval date)

DUTIES and TASKS

A. Perform Primary Networking

A1. Assist in primary cable pulling			A2. Perform primary cable termination			A3. Perform primary pair continuity test			A4. Assist in cable joint enclosing		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	2	3	3	1	3	3	1	3	3	1
A5. Set MDF(Main Distribution Frame) fuse											
Task rating											
Importance	Difficulty	Frequency									
3	1	3									

B. Perform Secondary Networking

B1. Perform pole erection			B2. Fit suspension clamp/pin type bracket/anchoring eye			B3. Fit distribution bracket			B4. Fit stay seat		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	1	3	3	1	3	3	1	3	3	1
B5. Fit stay/push brace			B6. Perform aerial cable pulling			B7. Fit Distribution Point (DP) with bridle ring			B8. Perform secondary cable termination		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	1	3	3	2	3	3	2	3	3	1
B9. Perform U-guard fitting			B10. Perform earthing			B11. Perform DP numbering			B12. Perform aerial optical fiber cable pulling		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
2	1	1	3	2	1	3	1	1	3	3	1

C. Perform Cable Splicing

C1. Perform sheath opening			C2. Perform cable group binding			C3. Perform cable pair verification			C4. Perform cable pair twisting		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	2	3	2	2	3	2	2	3	3	2
C5. Fit connector			C6. Perform sheath continuity			C7. Perform enclosing			C8. Perform secondary pair continuity test		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Importance	Importance	Difficulty	Importance	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	2	3	3	2	3	2	3	3	3	1

D. Perform Subscriber Line Installation

D1. Draw sketch of the location			D2. Estimate materials			D3. Perform MDF jumpering for telephone line			D4. Perform cabinet jumpering		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	3	3	2	3	3	2	3	3	1	3
D5. Perform drop wire termination			D6. Perform drop wire pulling by using fastener			D7. Connect drop wire into one pair terminal box			D8. Connect rosset box		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	3	2	2	3	2	2	2	1	1	3
D9. Perform subscriber line testing			D10. Connect telephone set			D11. Perform MDF jumpering for ADSL			D12. Connect drop wire connector		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	3	3	1	1	3	3	2	3	2	2

E. Perform Pair Gain (PG) Installation

E1. Assist PG cable termination in MDF(Main Distribution Frame)			E2. Assist in Digital Subscriber Line (DSL) jumpering			E3. Assist channel jumpering in MDF(Main Distribution Frame)			E4. Perform Remote Terminal (RT) connection		
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	1	3	3	3	3	1	1
E5. Connect drop wire to Remote Terminal (RT)											
Task rating											
Importance	Difficulty	Frequency									
3	2	3									

DUTIES and TASKS

F. Perform Repair and Maintenance Work

F1. Test dial tone			F2. Perform voltage test			F3. Replace pole			F4. Repair drop wire		
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	3	1	3	2	2
F5. Repair cable			F6. Repair DP			F7. Perform DP shifting			F8. Perform cabinet shifting		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	1	3	3	1	3	3	2	3	3	1
F9. Perform cable shifting			F10. Replace fuse			F11. Replace PG card			F12. Replace RT		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	2	3	1	3	3	1	3	3	2	1
F13. Replace jumper wire			F14. Perform resistance test			F15. Perform insulation test by using megger					
Task rating			Task rating			Task rating					
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency			
3	1	3	3	3	1	3	1	3			

G. Dismantle Network

G1. Dismantle drop wire			G2. Dismantle DP			G3. Dismantle cable			G4. Dismantle pole		
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	3	1	3	3	1
G5. Dismantle stay			G6. Dismantle cabinet			G7. Dismantle pole accessories			G8. Dismantle earthing		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	3	1	3	3	1	2	1	1	3	3	1

H. Perform Communication

H1. Communicate with owner			H2. Communicate with customer.			H3. Communicate with Technician			H4. Communicate with colleague		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	1	3	2	1	3	1	3	3	1	3
H5. Communicate with professional organization											
Task rating											
Importance	Difficulty	Frequency									
3	1	1									

I. Develop Professionalism

I1. Participate in workshop/seminar			I2. Attain in training			I3. Observe new site			I4. Work with expert		
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	2	3	3	2	3	2	1
I5. Read books											
Task rating											
Importance	Difficulty	Frequency									
2	2	3									

Rating options:

1= Low

2= Medium

3= High

Additional Information for Job Title

Worker Trait	Entry Requirement	Career Path
<p>Worker Trait</p> <p>Good Expression, Polite, Creative, Punctual, Helpful, Neat and Tidy, Smiling, Sincere, Tactful, Service Oriented, Healthy, Hard working, Faithful, Confidential, Patience, Kind, Color Blind, Coordination, Team Sprit, Leadership.</p>	<p>Entry Requirement</p> <p>Literate with</p> <ol style="list-style-type: none"> 1. 1 month (160 hrs) training, or 2. As per NSTB rules and regulation 	<p>Career Path</p> <p>Junior Telecom Technician, L - 1</p>
<p>Related Technical Knowledge</p> <p>Knowledge on:</p> <ul style="list-style-type: none"> • Symbols, drawing and measuring units. • Color code, splicing procedure. • Pole erection, stay and accessories fitting. • DP and Cabinet installation procedure. • Measure current voltage, resistance and capacitance. • Use meters. • Cable pulling, cable splicing. • Lacing and termination of cable in Multi Service Access Node (MSAN), Optical Network Unit (ONU), cabinet terminal reading. • Safety rules and precaution. • Earthing procedure. • Plant record, map reading. • Types of cables used in outside network. • Network terminology. • Different procedure of pole erection. • Types of poles (telecom pole, electric pole and private pole) • Handling of optical fiber cable. • Evacuation procedure of poisonous gas by using ventilator. • Use of hand hole and man hole. • Base concrete procedure of pole. • Dismantle procedure of secondary network. • Pair-gain. • Basic electricity (voltage, current, resistance/insulation). • Basic mathematical calculation. • Different types of rope, rope-knot and lacing. • Handling of tools and equipment. • Basic concept of ADSL (Asymmetric Digital Subscriber Line). • Importance of MDF & cabinet. 		<p>Tools/Equipment</p> <ul style="list-style-type: none"> • Measuring tape, template, Measuring Wheel. • Modular splicing machine, UG cable cutter, round cutter, cable sheath cutter, wave cutter, side cutter, combination pliers, screw driver, knife, insertion tools, adjustable wrench, drill machine, Hacksaw, ladder, chisel, hammer, safety cones, ropes, safety boots, safety aerial belt, helmet, trailer, ventilator, water pump, generator, fix rod, RJ connector pliers. • ADSL tester, multi meter, megger, earth tester. • Digging set and bar, pick axe, shovel, spade, eriband tools, crimping tool, roller, aerial cable cutter, simera. • Monophone, hammer, tone test set, gloves, mandrill brush, tools bag, walkie-talkie, apron. • C-meter. • Angle roller, pulley, phase tester, stay wire cutter, connector pliers and drop wire connector pliers. • Splicing base plate (Aasiba). • Safety flag, safety cone and work on progress notice board.