

DACUM Panel

1. Mr. Rishiram Tiwari
DADO, Kathmandu.
2. Mr. Raju Kharel
Chapali Bhadrakali 8, Kath.
3. Mrs. Manju Adhikari
Dhapasi 6, Kathmandu
4. Ms. Sangita Pakhrin
Gangabu 6, Kathmandu
5. Mrs. Devi Neupane
Kapan 1, Kathmandu
6. Ms. Aasha Mokhtan
Dhapasi 6, Kathmandu
7. Mrs. Shanta Poudel
Dhapasi 6, Kathmandu
8. Ms. Shusila Shubba
Gangabu 6, Kathmandu
9. Mrs. Sabitri Pandey
Dhapasi 6, Kathmandu
10. Mr. Dev Sing Dhami
Seti Technical School, Doti

DACUM Facilitator/Recorder

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

Supervisor

Mr. Deepak Prasad Poudel
Dy-Director, NSTB

Verification Panel

1. Mr. Shankar Prasad Neupane
Industrial Entomologist, DOIED,
Lalitpur
2. Mr. Dev Singh Dhami
Instructor, STS, Doti
3. Mr. Hera Kaji Shrestha
Bee Technician, Tokha, Ktm.
4. Mr. Rishi Ram Tiwari
JT, DADO, Ktm.
5. Mr. Rajan Poudel
JTA, NPDP, Lalitpur
6. Mr. Rudra Bahadur Khatri
Bee Technician, SBBNBEI, Lalitpur
7. Mr. Dhan Lal Jaishi
Propiter, DBC, Myagdi
8. Mr. Kul Bahadur Limbu
Bee Technician, Ktm.
9. Dev Bahadur Gurung
ED, GBC, Ktm.

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Technical Sub Committee

1. Dr. Hari Dahal, Co-ordinator
Agriculture Tech. Sub Committee
2. Mr. Chandra Bhakta Nakarmi, Member
Director, NSTB, Sanothimi
3. Mr. Pawan Kumar Satyal, Member
Chairman, APINET, Nepal, Lalitpur
4. Mr. Chandra Prasad Dhakal, Member
Apiculturist, Bee keeping Development
Section, Godabari, Lalitpur
5. Mr. Shankar Prasad Neupane, Member
Industrial Entomologist, DOIED, Lalitpur
6. Mr. Deepak Prasad Poudel, Member
Dy-Director, NSTB, Sanothimi
7. Mr. Ishwar Chandra Ghimire, Member
Skill Testing Officer, NSTB, Sanothimi
8. Mr. Ram Hari Devkota, Memb. Secretary
Dy-Director, NSTB, Sanothimi

Occupational Profile



Bee Keeper, L-1

(DACUM workshop on April 8-9, 2010)

(Customized DACUM workshop on April 11, 2010)

(Technical Sub Committee Meeting on 15 April 2010)



Council For Technical Education and Vocational Training

NATIONAL SKILL TESTING BOARD

Madyapur Thimi 17, Sanothimi, Bhaktapur

Nepal

(NSTB approval date)

DUTIES and TASKS

A. Prepare Simple Plan

A1. Select site			A2. Assist to prepare budget			A3. Perform simple survey of market			A4. Select bee species		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	1	2	2	1	3	2	2	3	2	1
A5. Select bee hive			A6. Collect required equipments/materials								
Task rating			Task rating								
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency						
3	1	1	3	1	1						

B. Manage Bee Pasture

B1. Broadcast annual flowering seeds			B2. Transplant perennial flowering plant			B3. Irrigate the plants			B4. Apply manure		
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	1	3	3	1	2
B5. Perform weeding			B6. Arrange fence			B7. Collect seed/seedlings			B8. Store seed		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	2	2	2	1	3	2	2	2	1	1
B9. Protect natural pasture											
Task rating											
Importance	Difficulty	Frequency									
3	2	3									

C. Manage Bee Colony

C1. Perform requeening			C2. Manage swarming			C3. Manage absconding			C4. Inspect bee colony		
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	2	3
C5. Unite bee colony			C6. Divide bee colony			C7. Harvest Honey			C8. Migrate bee hive		
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	2	2	3	2	2
C9. Protect bee colony from cold			C10. Protect bee colony from hot			C11. Replace comb-foundation sheet			C12. Treat laying workers		
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	1	3	3	1
C13. Destroy unnecessary cell			C14. Clean bee hive			C15. Apply queen excluder			C16. Smoke bee colony		
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	1	1	1	2	1	1
C17. Provide super chamber			C18. Transfer bee colony from traditional hive to modern hive			C19. Protect from rainfall					
Task rating			Task rating			Task rating					
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency			
2	1	2	3	3	1	3	1	1			

D. Manage Pest/Diseases

D1. Protect bee colony from ant			D2. Protect bee colony from bee eater			D3. Protect bee colony from Pine marten/Bear			D4. Protect bee colony from wasp/hornet		
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	2	3	2	2	3	2	2
D5. Treat mite			D6. Treat wax moth			D7. Treat European foul brood			D8. Prevent Thai sac brood disease		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	2	3	1	1	3	3	2	3	3	2

DUTIES and TASKS

E. Prepare Bee Feed

E1. Prepare sugar solution			E2. Prepare artificial pollen			E3. Prepare glucose solution			E4. Prepare sugar candy		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	2	2	2	1	1	1	1	2	1	1

F. Feed Bee

F1.Feed sugar solution			F2. Feed sugar candy			F3. Feed artificial pollen			F4. Feed natural pollen		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	3	2	2	1	2	1	1	2	1	1
F5. Feed glucose solution											
Task rating											
Importance	Difficulty	Frequency									
1	1	1									

G. Market Bee Products

G1. Process honey by using local method			G2. Process honey by using plant method			G3. Sterilize bottle			G4. Pack honey		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	1	2	3	2	2	3	2	1	3	2	3
G5. Label the honey			G6. Process wax by using solar heat method			G7. Process wax by using local method			G8. Pack wax		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	3	2	2	2	3	2	2	3	2	2
G9. Store bee products			G10. Transport bee products								
Task rating			Task rating								
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency						
3	2	2	3	2	2						

H. Develop Professionalism

H1. Read news/messages/books			H2. Participate in related training			H3. Visit related farms/industries			H4. Participate in skill test competition		
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	2	2	3	3	1
H5. Participate in seminar			H6. Visit website			H7. Work with experts					
Task rating			Task rating			Task rating					
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency			
2	2	1	3	3	1	3	1	1			

I. Perform Communication

I1.Communicate with peers			I2. Communicate with juniors			I3. Communicate with seniors			I4. Communicate with farmers		
Task rating			Task rating			Task rating			Task rating		
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency	Importance	Difficulty	Frequency
3	2	2	3	1	2	3	3	2	3	2	2
I5. Communicate with suppliers/wholesalers			I6. Communicate with concern stakeholders								
Task rating			Task rating								
Importance	Difficulty	Frequency	Importance	Difficulty	Frequency						
3	2	2	3	2	2						

Rating options:

0= No

1= Low

2= Medium

3= High

Additional Information for Job Title

<u>Worker Traits</u>	<u>Entry Requirement</u>	<u>Career Path</u>
<ul style="list-style-type: none"> • Sincere • Punctual • Responsible • Helpful • Co-operative • Discipline • Honest • Healthy • Faithful • Clever • Dedicated 	<ul style="list-style-type: none"> • Literate • 390 hrs Training or • NSTB Rules 	<ul style="list-style-type: none"> • Bee Technician, L-2
<u>Related Technical Knowledge</u>		<u>Tools and equipments</u>
<ul style="list-style-type: none"> • Knowledge on importance of bee keeping, site selection, types of bee and bee hive, their function and life cycle, • Knowledge on quality of queen and requeening • Knowledge on safety precaution. • Knowledge on First Aids. • Knowledge on required tools equipments, materials. • Knowledge on basic calculation. • Knowledge on seasonal management of bee colony. • Knowledge on pasture management and flowering seasons of plants • Knowledge on bee migration • Knowledge on inter cultural operation of plants. • Knowledge on ratio, preparation, procedure and feeding technique of bee feed. • Knowledge on natural pest and diseases of bee and their preventing/controlling techniques. • Knowledge on prevention and control of robbing and fighting. • Knowledge on bee pollination. • Knowledge on safe uses of pesticide. • Knowledge on quality of bee products (honey, wax, propolis, venom, pollen, candle, royal jelly) • Knowledge on safely storage, transportation, marketing of bee products. 		<ul style="list-style-type: none"> • Improved bee hive • Honey extractor • Knife • Gloves • Bee veil • Bee feeder • Comb foundation sheet • Queen gate • Queen excluder • Hive stand • Stand bowls • Smoker • Brush • Honey tray • Queen cage • Honey strainer • Hive belt • Wax melter • Hive tools • Swarming bag • Dummy board • Harvesting net/room • Nucleus hive