

#### **DACUM Panel**

1. Dr. Tasneem Ahmad  
Ex- DG Plant Protection
2. Dr. Mahmood Randhawa  
HOD UAF
3. Mian Idrees Ahmad  
Principal Scientist, Agri
4. Nazakat Nawaz  
Principal Scientist
5. Dr. Arshad Hussain  
Hashmi  
Registrar PIDE
6. Asif Hayat Rana  
CEO Green A Services  
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7. Zia Ul Hassan Shad  
Project Director P-  
TEVTA
8. Muslim Shah  
Specialist Agriculture  
KPK
9. Abdul Raheem  
Pak-German Institute  
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10. Fawad Ahmad Hashmi  
Horticulturist
11. Muhammad Asif Raheem  
Biotechnologist UAF
12. Muhammad Saeed  
Biotechnologist UAF
13. Hamayoun Hameed  
Horticulturist
14. Zeeshan Ali  
DD (VT) NAVTTC
15. Muhammad Aasim  
AD (VT) NAVTTC
16. Muhammad Hamza  
Nadeem  
APS (SS&C) NAVTTC

#### **DACUM Facilitator:**

Engr. Aijaz Ahmed Zia

# **Occupational Profile Chart**

## **of**

### ***“Crop Protection Technician- Level 3”***

*Date*

***20<sup>th</sup>-24<sup>th</sup> March, 2023***

***NAVTTC HQ, Islamabad, Pakistan***



**National Vocational & Technical  
Training Commission**

### Level 3- Crop Protection Technician

DUTIES and TASKS					
<b>A. Follow Occupational Health, Safety and Environment (OHS&amp;E) measures at Farm.</b>					
<b>A1.</b> Monitor Environmental Factor using advanced technology	<b>A2.</b> Ensure availability of health and safety equipment	<b>A3.</b> Compliance of Hazard prevention			
<b>B. Maintain crop protection machinery and equipment</b>					
<b>B1.</b> Identify the required machinery and equipment	<b>B2.</b> Inspect the crop protection machinery and equipment	<b>B3.</b> Calibrate the crop protection machinery and equipment	<b>B4.</b> Report the inspected machinery and equipment		
<b>C. Perform amendment in farm equipment</b>					
<b>C1.</b> Identify the issue in existing equipment	<b>C2.</b> Arrange required tools/equipment for amendment	<b>C3.</b> Modify the required equipment			
<b>D. Assist in procurement of farm equipment</b>					
<b>D1.</b> Prepare a list of required equipment	<b>D2.</b> Help the farm management for procurement	<b>D2.</b> Check the quality of procured equipment	<b>D4.</b> Ensure safe storage of procured equipment		

<b>E. Implement advanced precision agriculture strategies</b>					
<b>E1.</b> Develop plan to optimize use of resources, such as water and fertilizer using advanced precision agriculture techniques	<b>E2.</b> Analyze data collected from precision agriculture tool to optimize crop growth and production	<b>E3.</b> Use precision agriculture tools to identify area of the farm that require attention and implement corrective action			
<b>F. Implement advance Green practices in the Crop protection</b>					
<b>F1.</b> Implement sustainable and environmentally friendly practices in precision agriculture	<b>F2.</b> Implement strategies to reduce environmental impact and promote biodiversity	<b>F3.</b> Record and report environmental data to the supervisor			

## Additional Information for *Crop Protection Technician*

Worker traits	Entry Requirements	Duration of Training Required	Career Paths
<ul style="list-style-type: none"> <li>• Environment Friendly</li> <li>• Motivated for SDGs</li> <li>• Honest</li> <li>• Punctual</li> <li>• Knowledgeable about Green TVET</li> <li>• Interpersonal skills</li> <li>• Hard worker</li> <li>• Team worker</li> <li>• Collaborative</li> <li>• Confident</li> <li>• Communicative Skills</li> </ul>	<p>*Level 1&amp;2 in Crop Protection</p>	<p>The proposed duration for level 3 training is 6 months.</p>	<ul style="list-style-type: none"> <li>• Crop Protection Helper/Gardener</li> <li>• Crop Protection Assistant</li> <li>• Crop Protection Technician</li> <li>• Crop Protection/Farm Supervisor</li> <li>• Crop Protection/Farm Manager</li> </ul>

## List of Tools and equipment

Tool/Equipment	Quantity
Backpack sprayer (16L)	5
Hand sprayer (1L)	25
Pesticide applicator's safety kit (gloves, goggles, mask, apron)	25 sets
Knapsack sprayer spare parts kit (including nozzle, gasket, wand, hose)	5 kits
pH meter	1
Moisture meter	1
Digital thermometer	1
Plant disease diagnostic kit	1
Soil sampling kit	1
Pruning shears	25
Hand trowels	25
Garden rake	5
Hoe	5
Wheelbarrow	5
Safety signs (e.g. "Do not enter", "Pesticide application in progress")	5