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# **Occupational Analysis of National Vocational Qualification for “Pine nuts Processor Level 2-3 and 4”**



**November, 2017  
Peshawar KPK**

**National Vocational & Technical  
Training Commission (NAVTTC)  
Government of Pakistan**

## DUTIES and TASKS

<b>A. Collect Cones from Trees</b>	<b>A1.</b> Cut Pine Cones from trees	<b>A2.</b> Sort Pine Cones according to requirements		
	<b>B1.</b> Prepare surface for placement of Pine nut cones	<b>B2.</b> Dry Pine nut cones for extraction	<b>B3.</b> Separate Pine nuts from cones	<b>B4.</b> Reduce excessive moisture from Pine nuts
<b>B. Extract Pine Nuts from Cones</b>	<b>B5.</b> Remove Foreign Materials (Impurities)	<b>B6.</b> Adopt health and safety measures during extraction		
	<b>C1.</b> Sort Pine nuts according to grading	<b>C2.</b> Dry pine nuts (Moisture)	<b>C3.</b> Pack Pine nuts as per requirements	<b>C4.</b> Transport Pine nuts to the desired destination
<b>C. Perform Handling &amp; Storage at source</b>	<b>D1.</b> Roast Pine nuts as per requirements	<b>D2.</b> Remove infected Pine nuts	<b>D3.</b> Pack Roasted Pine nuts as per requirements	<b>D4.</b> Transport roasted Pine nuts to the desired destination
<b>D. Roast Pine Nuts</b>	<b>E1.</b> Roast Pine nuts for Kernels	<b>E2.</b> Perform peeling of Pine nuts for Kernels extractions	<b>E3.</b> Dry Kernels for removing membrane	<b>E4.</b> Sort Kernels as per requirements
<b>E. Roast Pine Nuts for Kernel</b>	<b>E5.</b> Perform Packaging of Kernels			
<b>F. Perform basic marketing operations</b>	<b>F1.</b> Analyse Pine nuts market trends	<b>F2.</b> Prepare Marketing Plan for sale of Pine nuts	<b>F3.</b> Execute Marketing Plan	

## DUTIES and TASKS

### G. Develop Professionalism

<b>F1.</b> Develop professional attitude.	<b>F2.</b> Follow Environmental, Health and Safety Rules.		
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## Additional Information for “Pine Nuts Processor”

Worker traits	Entry Requirements	Duration of Training Required	Career Paths
<ul style="list-style-type: none"> <li>• Dedicated</li> <li>• Honest</li> <li>• Supportive</li> <li>• Physically fit</li> <li>• Weather adaptive</li> <li>• Committed</li> <li>• Decision maker</li> </ul>	<p>Literate and have working knowledge</p>	<p>To be decided later</p>	<p>Entrepreneur Trainer Supervisor Marketer / Merchandiser</p>
Related Knowledge and Skills		Tools/Equipment	
<ul style="list-style-type: none"> <li>• Harvesting Season</li> <li>• Cones maturity and color</li> <li>• Proper cutting techniques</li> <li>• Types and uses of cutting tools</li> <li>• Segregation of Male and Female cones</li> <li>• Storage techniques</li> <li>• Difference between healthy and infected cones</li> <li>• Harms of contamination</li> <li>• Health and safety</li> <li>• Extraction methods and techniques</li> <li>• Drying techniques</li> <li>• Harms of infected pine nuts and their preventive measures</li> <li>• Types and uses of extraction tools</li> <li>• Selection of packaging material</li> <li>• Types and importance of packaging material</li> <li>• Moisture Level in Pine nuts</li> <li>• Customers' requirements</li> <li>• Roasting techniques</li> <li>• Peeling methods</li> <li>• Types and uses of Personal Protective equipment</li> <li>• HACCP</li> <li>• Food safety</li> <li>• Market trends demand and supply sides</li> <li>• Pricing and costing</li> </ul>		<ul style="list-style-type: none"> <li>• Pine nuts cone cutters with baskets</li> <li>• Gloves</li> <li>• Wooden hammer for extraction</li> <li>• Wooden Pointer for extraction</li> <li>• Heating Pit</li> <li>• Air blower</li> <li>• Generator</li> <li>• Wooden Pallets</li> <li>• Jute / Cotton bags (Air ventilation)</li> <li>• Cold Storage unit</li> <li>• Pine nuts roasters</li> <li>• Dry roaster</li> <li>• Moisture meter</li> <li>• Stitching bag machine</li> <li>• Pedal sealers</li> <li>• Severs (Different sizes)</li> </ul>	