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| DACUM Panel**Mr. Din Muhammad**WANA Welfare Association**Mr. Sher Zaman Wazir**WANA Welfare Association**Mr. Zer Muhammad Wazir**WANA Welfare Association**Mr. Ashraf Khan**GATTC Peshawar**Mr. Zeeshan** GATTC Peshawar**Mr. Faisal Bashir**Al-Fareed Traders, Peshawar**Mr. Muhammad Zahid Durrani**Hunza Organics, Lahore**Ms. Nighat Ara** Trainer and Expert**Mr. Muhammad Sohail**Trade testing Board Peshawar**Mr. Tariq Mehmood**GIZ Pakistan**Mr. Raja Asad Ullah Khan**GIZ Pakistan**Mr. Muhammad Naeem Akhtar**GIZ PakistanDACUM FacilitatorSyed Salman Nasir Ali Shah**Co-Facilitators****Miss. Naima Irshad**Punjab TEVTA**Mr. Mushtaq Ahmed**TEVTA Punjab | Occupational AnalysisofNational Vocational Qualification for “Pine nuts Processor Level 2-3 and 4”Image result for NAVTTC logoNovember, 2017Peshawar KPKNational Vocational & Technical Training Commission (NAVTTC)Government of Pakistan |

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| **A1.** Cut Pine Cones from trees1. **Collect Cones from Trees**
 | **A2.** Sort Pine Cones according to requirements |  |  |
| **B1.** Prepare surface for placement of Pine nut cones**B. Extract Pine Nuts from Cones** | **B2.** Dry Pine nut cones for extraction | **B3.** Separate Pine nuts from cones | **B4**. Reduce excessive moisture from Pine nuts |
| **B5**. Remove Foreign Materials (Impurities) | **B6**. Adopt health and safety measures during extraction |  |  |
| **C1.** Sort Pine nuts according to grading**C. Perform Handling & Storage at source** | **C2.** Dry pine nuts (Moisture) | **C3.** Pack Pine nuts as per requirements  | **C4.** Transport Pine nuts to the desired destination |
| **D1.** Roast Pine nuts as per requirements**D. Roast Pine Nuts** | **D2.** Remove infected Pine nuts | **D3.** Pack Roasted Pine nuts as per requirements | **D4**. Transport roasted Pine nuts to the desired destination |
| **E1.** Roast Pine nuts for Kernels**E. Roast Pine Nuts for Kernel**  | **E2.** Perform peeling of Pine nuts for Kernels extractions | **E3.** Dry Kernels for removing membrane | **E4.** Sort Kernels as per requirements |
| **E5.** Perform Packaging of Kernels |  |  |  |
| **F1.** Analyse Pine nuts market trends**F. Perform basic marketing operations** | **F2.** Prepare Marketing Plan for sale of Pine nuts | **F3.** Execute Marketing Plan |  |
| **F1.** Develop professional attitude.**G. Develop Professionalism** | **F2.** Follow Environmental, Health and Safety Rules. |  |  |

Additional Information for “Pine Nuts Processor”

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| Worker traits * Dedicated
* Honest
* Supportive
* Physically fit
* Weather adaptive
* Committed
* Decision maker
 | Entry RequirementsLiterate and have working knowledge  | Duration of Training RequiredTo be decided later | Career PathsEntrepreneur TrainerSupervisorMarketer / Merchandiser |
| **Related Knowledge and Skills*** Harvesting Season
* Cones maturity and color
* Proper cutting techniques
* Types and uses of cutting tools
* Segregation of Male and Female cones
* Storage techniques
* Difference between healthy and infected cones
* Harms of contamination
* Health and safety
* Extraction methods and techniques
* Drying techniques
* Harms of infected pine nuts and their preventive measures
* Types and uses of extraction tools
* Selection of packaging material
* Types and importance of packaging material
* Moisture Level in Pine nuts
* Customers’ requirements
* Roasting techniques
* Peeling methods
* Types and uses of Personal Protective equipment
* HACCP
* Food safety
* Market trends demand and supply sides
* Pricing and costing
 | **Tools/Equipment*** Pine nuts cone cutters with baskets
* Gloves
* Wooden hammer for extraction
* Wooden Pointer for extraction
* Heating Pit
* Air blower
* Generator
* Wooden Pallets
* Jute / Cotton bags (Air ventilation)
* Cold Storage unit
* Pine nuts roasters
* Dry roaster
* Moisture meter
* Stitching bag machine
* Pedal sealers
* Severs (Different sizes)
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