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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 Pakistan  DACUM Facilitator  Syed Salman Nasir Ali Shah  **Co-Facilitators**  **Miss. Naima Irshad**  Punjab TEVTA  **Mr. Mushtaq Ahmed**  TEVTA Punjab | Occupational Analysis  of  National Vocational Qualification for  “Pine nuts Processor Level 2-3 and 4”  Image result for NAVTTC logo  November, 2017  Peshawar KPK  National Vocational & Technical Training Commission (NAVTTC)  Government of Pakistan |

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| **A1.** Cut Pine Cones from trees   1. **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 Requirements  Literate and have working knowledge | Duration of Training Required  To be decided later | Career Paths  Entrepreneur  Trainer  Supervisor  Marketer / 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) | |