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| Title | **Conduct farm operations** | | |
| Level | **4** | **Credits** | **52** |

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| Purpose | This competency standard identifies the competencies required to conduct farm operations. Trainee will be able to design crop scheme and schedule different cultural practices at pre-harvest level. This will also strengthen the knowledge of plant protection and to plan crop inputs including fertilizer, irrigation and crop monitoring. |

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| Classification ISCED | 0811 Crop and livestock production |

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| Available grade | Competent / Not yet competent |

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| Modification history | N/A |

| **Competency Unit** | **Performance Criteria** | **Knowledge and Understanding** |
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| D1. Supervise Farm Labor | *Trainee will* be able to:  P1. Assign daily duties for the completion of farm task  P2. Monitor performance for improvement and better utilization of time/ staff  P3. Create conducive environment for efficient output | *Trainee must* know and understand:  K1. Operations of farms  K2.Basic welfare and rights of farm labour  K3. Basic farm management tools   * K4. Security protocols |
| **D2 –** prepare the crop production schedule | *Trainee will be able to:*  P1. Identify the market demand for farm produce  P2. Prepare cropping scheme for target crops  P3. Plan crop sowing according to cropping season | * *Trainee must know and understand*   K1. Market demand/trends  K2. High/ low value crops  K5. Availability of resources  K6. Weather conditions  K7. Sowing and harvesting times |
| **D3.** Carryout farm cultural practices | *Trainee will be able to*  P1. Arrange the appropriate tools as per requirement  P2. Prepare soil for targeted crop  P3. Adopt suitable sowing method for better crop  P4. Adopt suitable practices to deal with climatic and other adverse stresses  P5. Deal with the biological and social threats | *Trainee must know and understand:*  K1. Different farm tools  K2. Sowing times of crops  K3. Precautionary measures based on Flood information  K4. Weather forecasting  K5.Biological and social invasions  K6. Pest, diseases and weeds  K7. Communal perception and attitude  K8. Different farming practices |
| **D4.** Supervise farm inputs | *Trainee must* be able to:  P1. Prepare calendar for different inputs as per crop requirement  P2. Carryout purchase of different inputs as per calendar  P3. Apply prescribed chemical for seed treatment  P4 Apply the farm inputs as per crop requirement  P5. Adopt safety measures while  applying inputs  P6. Apply organic sources at the farm to alleviate the fertility level of soil | *Trainee must* know and understand:  K1. Market rates of inputs  K2. Manufacturing and expiry dates of required inputs  K3. Formulation techniques for application of inputs  K4. Different techniques of application  K5. Safety measures during storage and application of inputs  K6. Pest scouting for economic use of chemicals  K7. Biological control of pests  K8. Seed borne diseases and their treatment  K9. Organic and inorganic sources of fertilizers |
| D5. Carryout plant protection measures | *Trainee must* be able to:  P1. Undertake pest scouting for proper spray  P2. Apply chemical against crop pests and weeds  P3. Apply disease control practices | *Trainee must* know and understand:  K1. Pest scouting procedure  K2. Difference between insect and pests  K3. Attack and damage by different pests  K4. Appropriate chemicals and their dosage  K5. Biological control measures for pests and diseases |
| D6. Supervise the irrigation schedule | *Trainee must* be able to:  P1. Manage sources of irrigation to fulfil water requirements of crops  P2. Ensure de-silting of water channels to enhance delivery of water  P3.Monitor Irrigation schedule | *Trainee must* know and understand:  K1. Water quality  K2. Irrigational requirements of crops  K3. Cleanliness/ dechocking of water channels  K5. Critical stages of crops regarding water requirement  K6. Closure schedule of canals  K7. Proper use of rainy water |