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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/ staffP3. Create conducive environment for efficient output | *Trainee must* know and understand:K1. Operations of farmsK2.Basic welfare and rights of farm labourK3. Basic farm management tools* K4. Security protocols
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| **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 cropsK5. Availability of resourcesK6. 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 stressesP5. 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 informationK4. Weather forecastingK5.Biological and social invasionsK6. Pest, diseases and weeds K7. Communal perception and attitudeK8. 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 applicationK5. Safety measures during storage and application of inputsK6. Pest scouting for economic use of chemicals K7. Biological control of pestsK8. 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 sprayP2. Apply chemical against crop pests and weedsP3. Apply disease control practices  | *Trainee must* know and understand:K1. Pest scouting procedure K2. Difference between insect and pestsK3. 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 waterP3.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  |