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| Title | **Supervise breeding** | | |
| Level | **4** | **Credits** | **37** |

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| Purpose | This competency standard identifies the competencies required to manage breeding as per farm requirement. You will be expected to Supervise heat detection, Supervise A.I/Natural Mating, Diagnose Pregnancy, Supervise Parturition, Supervise New-born Care &assist in implementation of breeding plan. |

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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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| **C1. Supervise Heat Detection** | ***Trainee must be able to:***  P1. Maintain Cow/Buffalo Calendar to assist in heat detection  P2. Detect heat symptoms timely for precision in inseminations  P3. Apply different means to improve heat detection  P4. Arrange specific feed for animals to improve breeding  P5.Maintain Reproductive Record of herd | **Trainee must know and understand**  K1. Usage of Cow calendar  K2. Heat detection symptoms  K3. Reproductive cyclicity & silent heat  K4. Reproductive ration types and quantities  K5. Types & templates of reproductive records |
| C2. **Supervise Insemination** | *Trainee must be able to:*  P1. Ensure the availability of AI Technician for timely insemination  P2. Maintain A.I. kit at the farm according to set standards  P3. Ensure A.I. protocols to achieve high conception that include:   * + 1. Use of fresh gloves     2. Use of new sheath     3. Thawing as per standards     4. Liquid nitrogen gas filling     5. Sun light exposure   P4 Ensure bull preparation before natural mating.  P5.Ensure pedigreed bulls having high conception rate for natural mating  P6. Select the bull that are neither defective nor disease carrier for natural mating | *Trainee must know and understand:*  K1.Database of best performing technicians in surrounding areas  K2. Industry standards to maintain AI kit  K3. Factors effecting conception rate during AI  K4. Importance of Breeding & Genetics for farm profitability  K5. Reproductive Diseases |
| C3. Diagnose Pregnancy | *Trainee must be able to:*  P1. Inspect and update the cow/buffalo calendar on daily basis  P2. Perform the pregnancy tests as per breeding record to correctly identify pregnant animals | *Trainee must know and understand:*  K1. Breeding cycle  K2. Protocol of rectal pulpation, use of pregnancy kits and ultrasound machines  K3. Reproductive physiology |
| C4. Supervise Parturition | *Trainee must be able to:*  P1. Ensure timely isolation of pregnant animals ready to parturate  P2. Ensure proper bedding for hygienic conditions in calving pens  P3. Deploy an experienced and well equipped attendant for safe parturition.  P4. Arrange for competent Vet to attend any complication | *Trainee must know and understand:*  K1. Parturition stages  K2. Importance of post-parturition care  K3. Importance of bedding and hygiene during parturition  K4. Factors leading to difficult birth and retained placenta |
| C5. Supervise New-born Care | *Trainee must be able to:*  P1. Supervise new-born animal by ensuring animal welfare requirements are met  P2. Weigh and record the new-born as soon as possible  P3. | *Trainee must know and understand:*  *K1. Animal welfare requirement for new-born animals which includes*   * ***Mechanism of respiration & blood circulation*** * ***Disease transmission through orifices*** * ***Immunization & importance of colostrums feeding*** * Activate respiratory mechanism * Ensure Licking by dam for blood circulation * Ensure Naval disinfection &Ligation for disease control * Ensure immediate colostrum feeding for immunity   *K2. Importance of record management* |
| C6. Assist in implementation of breeding plan | *P1. Assist in selection of bull and semen for breeding purpose*  *P2. Update the Cow/Buffalo Calendar for accurate action*  *P3. Maintain the pedigree records for annual breeding plan at farm* | *K1. Importance of breed characteristics and semen selection*  *K2. Role of cow calendar in breeding plans*  *K3. Breeding and Genetics, available genetic resources*  *K4. Synchronization protocols* |