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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 detectionP2. Detect heat symptoms timely for precision in inseminations P3. Apply different means to improve heat detection P4. Arrange specific feed for animals to improve breedingP5.Maintain Reproductive Record of herd | **Trainee must know and understand** K1. Usage of Cow calendarK2. Heat detection symptomsK3. Reproductive cyclicity & silent heatK4. Reproductive ration types and quantitiesK5. Types & templates of reproductive records |
| C2. **Supervise Insemination** | *Trainee must be able to:*P1. Ensure the availability of AI Technician for timely inseminationP2. Maintain A.I. kit at the farm according to set standardsP3. 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 areasK2. Industry standards to maintain AI kitK3. Factors effecting conception rate during AIK4. 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 cycleK2. 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 parturateP2. Ensure proper bedding for hygienic conditions in calving pensP3. 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 stagesK2. Importance of post-parturition careK3. Importance of bedding and hygiene during parturitionK4. 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* |