

# ARTIFICIAL INSEMINATION

## Level 1

Topic	Training & information Content
5.1	Dairy Cattle Breeds and Breeding
5.2	Breeding program for a dairy farm (medium & large)
5.3	Conformation, Type classification and judging
5.4	Cow handling
5.5	Milk production recording
5.6	Heat Detection
5.7	Artificial Insemination
5.8	Pregnancy Diagnosis
5.9	Fertility Management
5.10	Cows with abnormal discharge
5.11	Fertility disease recording
5.12	Calving recording
5.13	Use of Key Performance Indicators



# Artificial Insemination (Level 1)

## You will learn about:

- ❑ How to get your cow pregnant
  - Artificial Insemination (AI) or Natural service (bulls)?
  - Tips of carrying out successful insemination
    - Accurate heat detection (Observing cows)
    - timing of insemination
    - handling the cow before and after insemination

# Artificial Insemination (Level 1)

## How to get your Cow/Heifer pregnant

Artificial Insemination (AI) or Natural Mating?



*AI is better than use of bulls*



# Artificial Insemination (Level 1)

## Artificial Insemination

### Tips for Successful AI

- Starts with **Accurate Heat detection** (when other important heat signs are 100 points or above, but the best is at standing heat)

### Heat signs that are important to recognize;

Restlessness	5 %.
Drop in milk production	5%
Swollen vulva	5 %
Phleming	10%
Bellowing	10%
Mounted but not standing.	10 %.
Fresh saliva on cow's back	15%.
Chin resting.	20 %.
Back bending (touching clitoris)	30%
Continuous Clear Discharge (Few Days)	30 %
Sniffing several other cow's vagina	30 %.
Mounting farmer (when standing in front of cow)	30%
Mounting or attempt other cows.	40 %
Mounting head side other cows.	60 %
Standing Heat.	100 %.



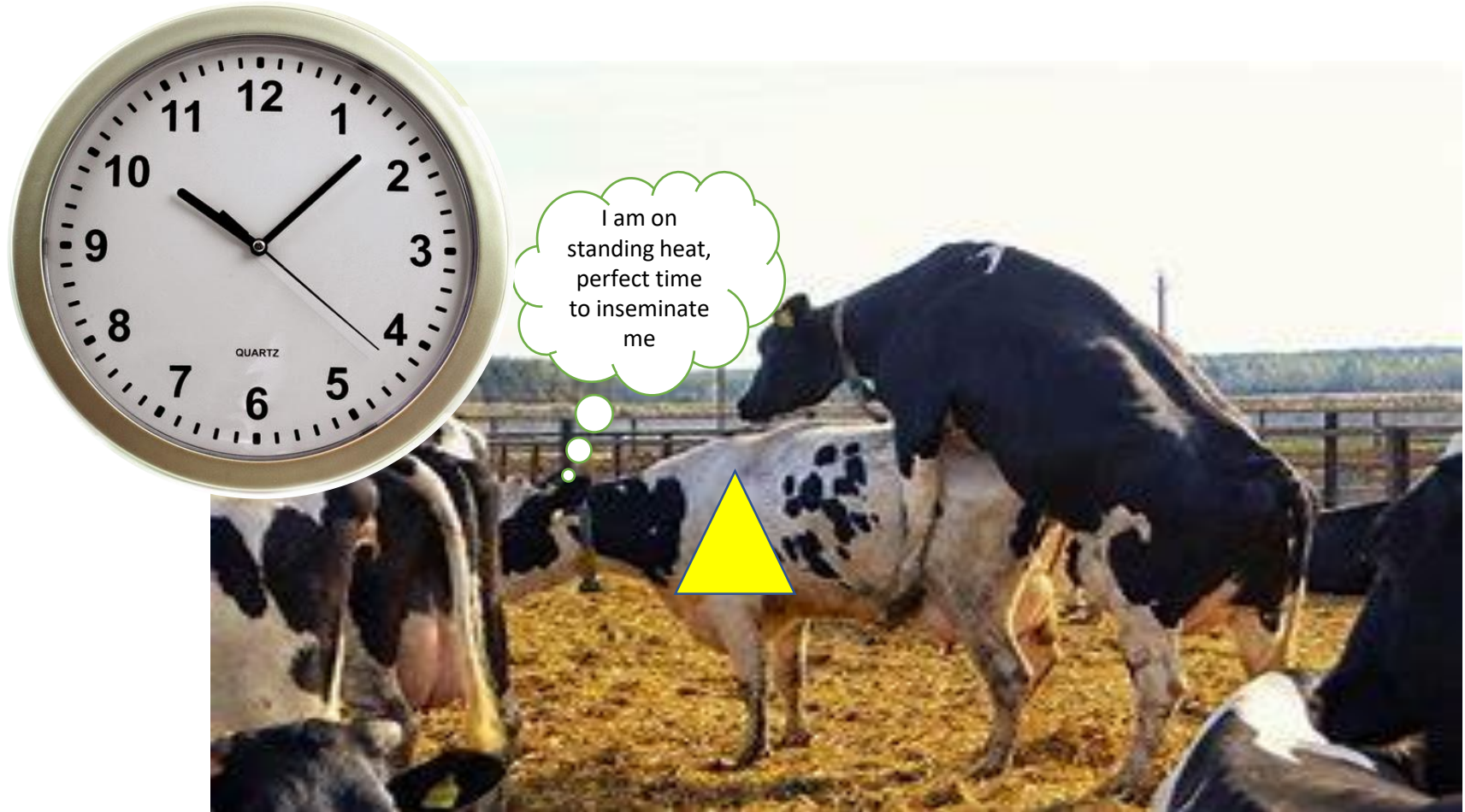
**Total of 100 points or above**



# Artificial Insemination (Level 1)

- **Standing heat** means the cows stands still while being mounted
- AI also depends on **Proper timing of Insemination** (time bound activity)
- Take note of Time of the first Standing Heat event

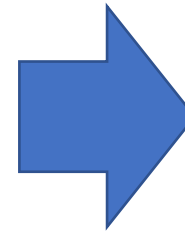
**10:08 AM**



**100 points**

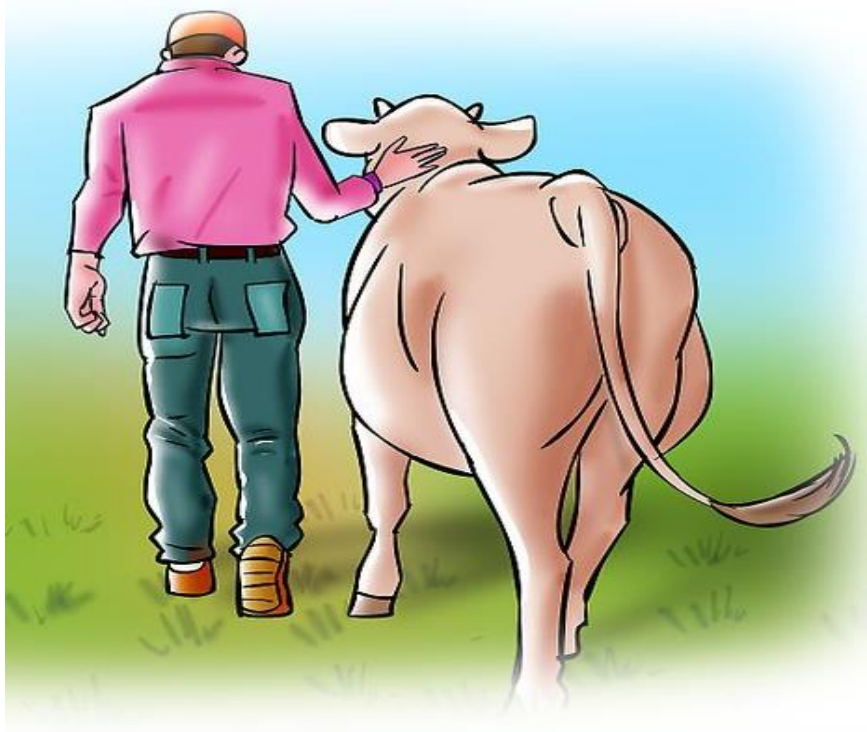
# Artificial Insemination (Level 1)

- When (first) standing heat is seen, immediately alert/call the AI technician who will do the insemination



# Artificial Insemination (Level 1)

- Separate the cow: Take the cow away to a separate facility/place where she can eat, drink and **avoid stress** and disturbance from the rest



Fresh feed

Clean water

# Artificial Insemination (Level 1)

- Make sure the cow feels free and relaxed (no stress)

Inseminate  
immediately/as  
soon as possible but  
before

**10:08 PM**



*Clear discharge is a  
sign that everything  
is just right*



**Very Important:**  
*Insemination without stress*

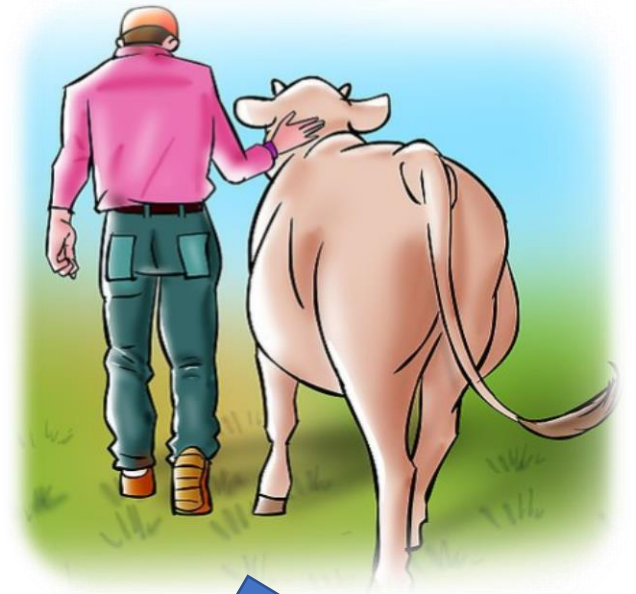


# Artificial Insemination (Level 1)

- After insemination, keep the cow separated for at least one hour before she goes back to the herd.



Wait at least  
one hour



# Artificial Insemination (Level 1)

## Take Home message

Successful AI = Cow being pregnant  
(conceiving)

- Successful AI depends on:
  1. **Preciseness!** – accurate heat detection
  2. **Timing!** – insemination (with no stress)



*Also helpful: Training of farmer and farm staff*

