

OSCE Code 7457-350 Supporting Anaesthesia 01 (Ayres T piece) for Unit 312

This station covers the following RCVS Day One Skills: 1.1, 1.2, 10.1

This OSCE will be used to assess the awards indicated

Award	Award Reference	Pathway
7457 – Level 3 Diploma in Veterinary Nursing	600/6052/6	Small Animal
7457 – Level 3 Diploma in Veterinary Nursing	600/6052/9	Equine

Scenario

The veterinary surgeon wants to anaesthetise a cat for ovariohysterectomy.

Using the equipment available, select, assemble and attach the most appropriate anaesthetic breathing system for this patient.

As this is the first induction of the day, you will also need to check that the anaesthetic machine is ready for use. Explain to the examiner the checks that you are making.

For this patient you are required to calculate:

- Tidal volume (x ml/kg)
- Minute volume
- Fresh gas flow per minute

The patient has a pre-anaesthetic respiration rate of x breaths per minute

Show all your workings including units

Methodology: You will be expected to:

1.	Select Modified Ayres T-Piece anaesthetic breathing system
2.	Select low pressure Adjustable Pressure Limiting (APL) valve
3.	Select narrow inspiratory tubing
4.	Select 0.5 litre blind-ended reservoir bag
5.	Select T-shaped connector
6.	Attach to anaesthetic machine
7.	Attach scavenging to APL valve
8.	Attach scavenging to fluosorber
9.	Correct breathing system assembled correctly
10.	Breathing system attached correctly to machine and scavenging
11.	Open the oxygen cylinder valve (slowly anticlockwise)
12.	Check the registered quantity of oxygen on the pressure dial
13.	Turn on the oxygen flowmeter control to check smooth function
14.	Turn off oxygen flowmeter control
15.	Press emergency oxygen flush button
16.	Attach 'in-use' label to oxygen cylinder
17.	Check the vaporiser percentage dial to ensure it turns easily
18.	Check the level of the volatile anaesthetic agent in the vaporiser and take appropriate action
19.	Check for leaks in the breathing system
20.	Fully open APL valve and leave open
21.	Leave anaesthetic machine ready for use (i.e. oxygen should be switched on and anaesthetic breathing system attached).
22.	Tidal volume calculation correct
23.	Minute volume calculation correct
24.	Fresh gas flow calculation correct
25.	Correct units of measurement used for final answer