

Session 9: Inhalation Anesthesia Machine Use/Vaporizer/Waste Gas, Setup, Induction, Anesthetic Maintenance, Monitoring and Recovery.

Pre-requisites: Session 1 and Session 2 or 3

Overview/Purpose: In order to prevent/reduce the risk of anesthetic gas exposure to animals and personnel; and understanding of how the systems operate. As well as proper maintenance of anesthesia equipment, appropriate waste scavenging systems, measures to avoid breathing in anesthetic gases for personnel and safe administration techniques and monitoring must be followed.

Recommended video can be found at:

<https://chipcast.hosted.panopto.com/Panopto/Pages/Viewer.aspx?id=83c10406-bc25-466b-8ec5-a8b900f2f094>

Required reading: Written training modules pertinent to this training module will be passed out at the time of training.

Methods covered:

- **Equipment Maintenance**
 - Scavenging Systems
 - Vaporizer Calibration
 - Vaporizer Verification
 - Performance Evaluation
- **Oxygen cylinders**
 - Monitoring
 - Handling
 - Change out
- **Induction procedures**
 - Chamber Induction
 - Injectable
 - Nose cone
 - Precision Vaporizer
- **Monitoring Measures of the Animals Pre, Induction, Procedural and Post Anesthetic**
 - Heat Source
 - Depth of anesthesia monitoring methods
 - Pinch reflexes, extremities color, respirations, heart rate, temperature etc.
 - Recovery procedures, observations, attended until ambulatory,
 - Return to room
 - Documentation of Anesthesia

- Post procedural Records