

# Semen Assessment Course

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Hosted by Professor Simon de Graaf FRSN FSRB

12-13th February 2025 | 8.30am-5pm

RMC Gunn Building, The University of Sydney, NSW

## Course overview

This course offers participants the opportunity for hands on training in basic and advanced livestock semen assessment techniques. Each participant will be provided with their own phase contrast microscope, warm stage and associated items for the duration of the course in order to maximise the practical learning experience. Participants will also have the opportunity to operate benchtop and portable CASA systems, experience DIC microscopy, use of a nucleocounter for concentration assessment and more.

### *Course Outline Day 1: Wednesday 12th February*

Session	Description
8:30-10:30am	Welcome and Lab WHS Inductions <b>Tutorial 1:</b> Sperm production and physiology <b>Activity 1a:</b> Motility standardisation (8 x videos)
10:30-11:00am	Morning tea
11:00-1:00pm	<b>Tutorial 2:</b> Semen assessment, microscopy 101, lab equipment, assessment of sperm motility <b>Activity 2:</b> Prepare slides & assess sperm motility subjectively on a microscope
1:00-2:00pm	Lunch and networking
2:00-3:30pm	<b>Tutorial 3:</b> Assessment of sperm concentration <b>Activity 3:</b> Prepare a haemocytometer & assess concentration on a microscope
3:30-4:00pm	Afternoon tea
4:00-5:00pm	<b>Activity 1b:</b> Motility standardisation (8 x videos) Semen dilution problems, general discussion, Q&A

## Course Outline Day 2: Thursday 13th February

Session	Description
8:30-10:00am	Review of Day 1 <b>Activity 1c:</b> Motility standardisation (8 x videos) <b>Tutorial 4:</b> Assessment of sperm morphology <b>Activity 4:</b> Prepare slides and assess the morphology of sperm by phase contrast and DIC microscopy
10:00-10:30am	Morning tea
10:30-1:00pm	<b>Tutorial 5:</b> Thawing and assessment of frozen semen for QC <b>Activity 5:</b> Thaw bull and ram semen, and assess motility, concentration and morphology of each sample
1:00-2:00pm	Lunch and networking
2:00-3:30pm	<b>Tutorial 6:</b> Advanced semen assessment- benchtop CASA, portable CASA, nucleocounter <b>Activity 6:</b> Assess motility and concentration of thawed semen on CASA systems and nucleocounter <b>Activity 1d:</b> Motility standardisation (8 x videos)
3:30-4:00pm	Afternoon tea
4:00-5:00pm	<b>Tutorial 7:</b> Semen standards, laboratory QA/QC Q&A, general discussion and course feedback

## Course Pricing and Registration

Pricing: \$1,600 (ex GST) for both days inclusive of all equipment, consumables, handbook, catering and certificate of completion

Please register and pay at [thereproductionco.com/courses](http://thereproductionco.com/courses)

## Australian Veterinary Association CPD points

Claim 26 points for 13 hours of structured wetlabs and workshops

## What to bring

- Non-permeable shoes
- Calculator
- Lab coats and safety glasses if you have them (not essential as they can be provided if needed)

# Contact us

## For Further Enquiries

**Email:** [info@thereproductionco.com](mailto:info@thereproductionco.com)

n.b. This is a private event and is not organised or endorsed by the University of Sydney. The content of the event is the responsibility of the organiser and not the University.