

The Specialist Centre for Biotechnology Training

Essential Laboratory Techniques

Dates: 10th February 2009
29th June 2009
27th November 2009

Course Description

Course Objective

Provides an understanding of the equipment and daily operations faced in a biotechnology laboratory. This course is designed to improve the attendee's effectiveness in daily laboratory operations, and impart confidence in frequently used calculations.

Course Outline

- Laboratory Facilities and Services Requirements
- Solution Preparation Skills Including Calculations
- Biotech Techniques
- Basic Laboratory Equipment

For Whom

- Science graduates and post graduate students looking for practical laboratory skills (ie. no experience)
- People looking for a change in career
- Lab staff seeking to update their skills

Certificate of Participation

- Awarded to participants who have achieved 75% attendance for the course.

Outcomes

- Use appropriate methods and safety precautions when preparing chemical solutions.
- Understand the grades of chemical reagents used in reagent preparation.
- Describe methods of dissolving chemicals with different solubility.
- Define the terms Mole, Molarity, Normality and molar solution. Prepare solutions of specific molarity and other concentrations such as percent w/v and percent v/v.
- Prepare routine laboratory solutions.
- Identify and use various types of volumetric pipettes, graduated pipettes, volumetric flasks and measuring cylinders.
- Micro pipetting techniques.
- Use and care of essential laboratory equipment.
- Understand the different types of laboratories and services.
- Familiarity with MSDS

Course information

Course code:	BIO 09
Course fee (incl GST):	\$660.00
Maximum class size:	15 participants
Time:	9.00am – 5.00pm
Total course duration:	8 hours (inc. lunch)

Venue:

Building 8, Level 3, Room to be advised
Box Hill Institute,
465 Elgar Road, Box Hill