# Train the Trainer Workshop and introduction to flexible bronchoscopy

# Course Conveners

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# Overview

Bronchoscopy is a fundamental skill of the pulmonologist, cardiothoracic surgeon and intensivists yet there are few formal learning opportunities to acquire the basic skills necessary for competency. This course aims to fill that void by providing a systematic approach to the anatomy, theoretical and practical aspects of being a competent bronchoscopist with a safe and effective approach to the procedure.

**Bronchoscopy learning objectives**

General:

* Become familiar with the anatomy and nomenclature of the tracheobronchial tree
* Understand the elements that make for safety in the bronchoscopy suite
* Begin the process of hand-eye co-ordination necessary for bronchoscopy
* Learn the fundamentals of procedure preparation and planning
* Practise the fundamentals of obtaining informed consent

Specific:

* Learn the anatomy of the bronchopulmonary segments
* Recognise and deal with complications – bleeding, sedation issues, pneumothorax
* Be familiar with the principles of patient sedation
* Learn the various methods of obtaining samples from the tracheobronchial tree
* Practice scope manipulation in simulators and model airways
* Practice scenarios for informed consent, procedural pause and patient safety check lists.

**Bronchoscopy Running Program**

0830 Welcome and introduction

0835 Anatomy and nomenclature of the tracheobronchial tree

0855 Bronchoscope manipulation

0915 Checklist

0930 Principles of sedation

0950 Basic bronchoscopic sampling techniques – obtaining optimal samples

1010 Dealing with emergent complications

1030 Morning tea and trade display

1100 **Practical session rotation 2 x 45mins (groups of 4 or 5)**

**Station 1:** *Hand eye co-ordination skills, bronchoscope manipulation*

 *(2 facilitators)*

Orsim simulator x1 – Gopher chase

**Station 2:** *Airway anatomy*

 *(1 facilitator)*

Orsim simulator x1 – identifying airway

 Various scenarios

**Station 3:** *Bronchoscopy skills and tissue sampling*

 *(2 facilitators; 1 cytopathologist)*

 2 x bronchoscopes and stacks

 2 x Koken box airway

Biopsy forceps; syringes, brushes, TBNA needles

 Specimen handling and Histology interpretation

**Station 4:** *Role play and discussions*

 *(1-2 facilitators)*

1. Informed consent checklist
2. Procedural pause and patient safety checklist
3. Practical approach checklist

**Station 5:** *The anatomy of a bronchoscopy suite (preferably in an endoscopy room)*

 *(1 facilitator)*

1. Know your equipment, emergency box, roles in an emergency
2. Fluoroscopy checklist
3. Sedation checklist

1230 Lunch and trade display

1315 **Practical session rotation 3 x 45 mins (continuation from morning session)**

 **Post course B-Stat**

1530-1545 - 4-5 subjects

1545-1600 - 4-5 subjects

1600-1615 - 4-5 subjects

1615-1630 - 4-5 subjects

1630-1645 - 4-5 subjects

1645-1730 Written multiple choice question and answer session

1730-1745Course summation, feedback, certificates