



MEGA BIOCONTAINMENT COURSE

Our MEGA course combines three of our most popular courses into one 4.5 day workshop. The MEGA course is a consolidated version of the following courses:

- Biocontainment Facility Construction
- Design and Construction of Laboratory Biocontainment Facilities
- Gaseous Decontamination of Biocontainment Facilities

VALUE FOR MONEY & TIME!

**Previously, the cost of attending all three workshops separately was \$5,100.
By registering before 1st February 2010 for the MEGA Course the cost is \$3,200
– saving you \$1,900!**

22 – 26 March 2010

Rendezvous Observation City Hotel
The Esplanade

Scarborough Beach

Scarborough, Western Australia

www.rendezvoushotels.com

Ph: 02 9245 1000 Fax: 08 9245 2345

This course is suitable for engineers, architects, facility managers, safety staff and others responsible for the design and operation of Biocontainment laboratories.

Day 1 – Midday Day 4

Design & Construction

A detailed description of the course contents is on the following page.

Midday Day 4 – Midday Day 5

Gaseous Decontamination of Biocontainment Facilities

The course will cover the theory of different decontamination systems and deal with the following in detail:

- Formaldehyde
- Hydrogen peroxide
- Chlorine dioxide

The course will cover the suitability of decontaminant options for containment applications, facility design aspects for decontamination, the actual procedures for decontamination, safety aspects and environmental issues. Detection systems and personal protective equipment issues will be covered. Finally quality assurance and verification of decontamination runs will be covered.

Presenters



Dr Tony Della-Porta

BSc PhD FASM GAICD

Tony Della-Porta is an internationally renowned expert in biosecurity, biocontainment and biological safety. He was a virologist and senior manager at the Australian Animal Health Laboratory. Tony has since used his expertise to provide consulting services world wide through his company Bio2ic



Neil Walls

BMechE DipEd GradDipHu MAALAS MAIRAH
MANZSLAS MIE (Aust)

Neil Walls specialises in bio-containment and bio-contamination engineering. His work includes the design of containment facilities up to PC4 (the highest microbiological containment level), animal health facilities and pharmaceutical facilities.

You may attend the whole MEGA Biocontainment Workshop (4.5 days), or the Design & Construction Workshop(3.5 days)
& Gaseous Decontamination Workshop (1 day) Separately
Course Bookings at www.bio2ic.com/Tr_Mega.htm



Biosecurity & Biocontainment International Consultants Pty Ltd

MEGA BIOCONTAINMENT COURSE

Design & Construction Course Contents

The course will cover the following areas:

- Welcome and Introduction
- Principles of Biocontainment
- Standards and Regulations
- Risk Assessment and Workflow Analysis
- Identify What Can Go Wrong
- Design Principles
- Air Handling Systems
- HEPA Filters
- Waste Treatment Principles and Issues
- Liquid Waste Treatment; Solid and Carcass Waste Treatment
- Gaseous Decontamination Systems
- Building Monitoring and Control Systems
- Power, Fire Services
- Laboratory Gases
- Communications and Security
- Laboratory furniture, Including Biological Safety Cabinets
- Laboratory Equipment; Animal, Invertebrate and Plant Facilities
- Prepare a Concept Design for a Biocontained Laboratory (Group Exercise)
- Presentation of Concept Designs.



This course will also concentrate on the detailed design of walls and ceilings and the associated penetrations. Different construction materials such as:

- Stud walls with double fire rated plaster board
- Sandwich panel systems
- Stainless steel panel systems
- Glass wall systems
- Solid concrete and block walls
- Level of detail
- Pressure testing
- Penetrations



Also covered will be the impact of high negative pressures and corrosive decontamination gasses. Verification of containment will be discussed in detail.



The course will give architects, engineers, facility managers and project managers a good background in the design and construction of biocontainment facilities

Some comments from previous course participants

“Extremely well researched, organised and presented. Presenters both have excelled and presented very professionally.”

“Brilliant as always and wonderfully informative.”

“An excellent workshop. I’ll recommend this to my colleagues.”

“Very worthwhile, thank you Tony & Neil.”

Course Bookings at www.bio2ic.com/Tr_Mega.htm