



# Training Course Agenda

PDA 157 Fundamentals of Lyophilization

## DAY 1

8:30 Welcome and Introductions

9:00 Introduction  
Process Example

**10:30 Break**

10:45 Equipment

**12:00 Lunch**

13:00 Basic Principles  
Phase Diagrams

**14:30 Break**

14:45 Freezing Process

**16:00 End of Day 1**

## DAY 2

8:30 Recap Day 1

9:00 Vacuum Technology  
Primary Drying

**10:30 Break**

10:45 Secondary Drying  
Low Temperature Thermal Analysis

**12:00 Lunch**

13:00 Freezing Techniques  
Finished Product Quality Attributes

**14:30 Break**

14:45 Process Engineering

**16:00 End of Training Course**