



**DAIRY PROCESSING OPERATORS TRAINING  
- MEMBRANE FILTRATION PROCESSING**

**OVERVIEW**

The course is targeted at plant operators in milk powder, casein and membrane filtration plants. The aim is to give operators an understanding of the process they control. It includes a summary of the individual parts of the process and its function.

**Duration: 1 Day**

**OBJECTIVES**

This course is intended to give all Dairy Processing Personnel:

- Basic understanding of the theory of the various membrane processes.
- Understanding of the practical aspects of the individual parts of the membrane process.

**WHO SHOULD ATTEND?**

Operators, Frontline managers, Trainee technical managers, Maintenance workers/managers



**SUMMARY CONTENT**

- Principles of Membrane Separation
- Reverse Osmosis - RO
- Nanofiltration – NF (UO)
- Ultrafiltration – UF
- Microfiltration – MF
- Spiral wound membranes
- Importance of Feed quality
- Retentate
- Permeate
- Control Systems
- Engineering parts of each system
- Understanding Fouling
- Understanding the effect of Pressure
- Understanding Total Solids
- CIP
- pH
- Chlorine, Caustic CIP
- Enzyme CIP
- Water Flux

**TRAINING METHODS**

The course is tutor led with use of PowerPoint presentations, flipcharts and on the plants visits where practical. The exact content can be tailor made to reflect the details of a plant that is familiar to the participants.