

# Reverse Osmosis Specialist Training

## Level 1

(Classroom and Hands-on, 3 days)

---

### Daily Schedule

Times	
<b>7:45am</b>	Registration, Coffee/Tea
<b>8:00am</b>	<b>MORNING SESSION 1</b>
<b>9:15am</b>	Stretch Break
<b>9:20am</b>	<b>MORNING SESSION 2</b>
<b>10:20am</b>	Morning Tea
<b>10:45am</b>	<b>MORNING SESSION 3</b>
<b>12:00noon</b>	Lunch
<b>12:45pm</b>	<b>AFTERNOON SESSION 1</b>
<b>1:30pm</b>	Stretch Break
<b>1:40pm</b>	<b>AFTERNOON SESSION 2</b>
<b>3:00pm</b>	Afternoon Tea
<b>3:20pm</b>	<b>AFTERNOON SESSION 3</b>
<b>4:50pm</b>	Summary and Evaluation
<b>5:00pm</b>	Day Close

Session times are an indication only! We try and respond to the needs of the group on any given day and may adjust timings as appropriate.

Each day will start and finish at the advertised times.

In partnership with:



In association with:



## Seminar Details

<b>Seminar Cost:</b>	\$3,700 (ex GST)
<b>Seminar Length:</b>	3 days
<b>Venue:</b>	Osmoflo Diment Road, Burton SA 5110
<b>Dates:</b>	Wednesday to Friday, 12 – 14 October 2016

### David H Paul Inc. Training:

DHP has trained over 20,000 water treatment professionals worldwide since 1988. Trainees include industry, government and municipal clients.

### Seminar Description:

This seminar provides the basic knowledge and proficiencies required to work in any reverse osmosis (RO) water treatment plant. This includes:

- Overviews of industries in which RO is used
- What the typical process flows are in different industries
- The subsystems of an RO water treatment plant, like air, water and power
- The equipment used, such as tools, valves, instruments, pumps, etc.
- Overviews of RO, RO units and pre-treatment

### Who Should Attend:

Everyone who works with, or will work with, the reverse osmosis and pre-treatment technologies in operating plants needs to know the tips, techniques and proficiencies taught in this seminar, including:

- Operators
- Maintenance personnel
- I & C Technicians
- Supervisors/Managers
- Engineers
- Original Equipment Manufacturers
- Service technicians
- More

### Why You Should Attend:

#### From a Personal Standpoint:

1. After successfully completing this 3-day program **you will be in the top 10% of RO personnel in the world** in your level of understanding and proficiency
2. If desired, you can add **Reverse Osmosis Specialist I** to your title and bio
3. Puts you in a better position for job advancement
4. You can't get this information anywhere else
5. The instructor has decades of practical RO water treatment experience
6. The instructor is an RO water treatment consultant
7. The instructor is a professional trainer
8. The seminar covers the material in a step-by-step manner so that everyone will understand the concepts presented
9. The presentation uses a multimedia format, including many videos and animations

**From an Employer's Standpoint:**

- Trained employees save you money by:
  1. Having the knowledge needed to identify problems at an early stage
  2. Having the ability to troubleshoot even difficult problems many RO systems face
  3. Using this knowledge to correct problems
  4. Less down time of the RO system
  5. Increased system reliability
- Being able to show clients, customers and any applicable governmental agencies that your employees have been independently certified on their knowledge and proficiencies.

**Topics covered include:**

- Water Treatment Overview
- Water Treatment by Industry
  - Drinking water
  - Power generation
  - Pharmaceutical/Biotech
  - Semiconductor/Microelectronics
- Water Treatment Plant Fundamentals
  - Plant Services-Air, Water & Power
  - Electricity
  - Tools
  - Piping
  - Hand Valves
  - Control Valves
  - On Stream Instruments
  - In-Plant Analysis
  - Pumps
- Process Flow Diagrams (PFD)
- Piping & Instrumentation Diagrams (P & IDs)
- RO & RO Units
- Water Contaminants
- Semipermeable Membranes RO/NF
- Osmosis & Reverse Osmosis
- Membranes & Membrane Elements
- Pressure Vessels
- Reverse Osmosis Units
- Brackish Water RO Unit Operation
- Seawater RO Unit Operation
- Potential Problems
- Pre-treatment
  - Scaling control
  - Fouling control
  - Chemical attack control

**What You Will Receive:**

Accredited training from David H Paul Inc., a world leader in high-tech water treatment training.

Training based on the extensive experience of the DHPaul trainers, who have trained around the world at countless facilities.

Eight hours of interesting, easy-to-understand theory, blended with practical application gained from years of training and operator experience.

Eight hours of the latest in multimedia training including 3-D animations.

A highly illustrated workbook.

M/Tea, A/Tea and Lunch.

Certificate of completion.

[www.amsts.com.au](http://www.amsts.com.au)