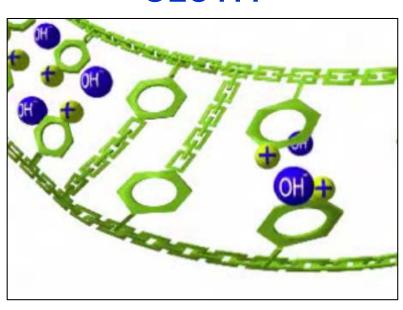


Ion Exchange Water Treatment

OLC411



Online Training

Information Packet



The
World's Leader in
High-Tech
Water Treatment
Training

PO Box 2590, Farmington, NM 87499 877-711-4347

Costs

\$203 USD

Price includes

- Narration
- Many illustrations
 - Video clips
 - Animations
 - Pictures
- o Interactive questions
- Practice exams
- o Final exam
- Discounts may apply
 - o Bundled discount for RO Certification
 - o Multiple-course discount
 - Multiple-trainee discount
 - o From time to time DHP runs special discounts

Length:

Seven (7) hours

What you will earn:

David H. Paul, Inc Certificate upon successfully passing an exam based on the knowledge and proficiencies learned in this course

Description:

You will learn the fundamental knowledge needed to understand the ion exchange technology and thoroughly understand how the ion exchange technology works. You will understand the equipment involved. You will also understand the various types of SAC and SBA beds and how they are regenerated.

Overview of Topics

- Ion Exchange Analysis
- Ion Exchange Principles
- Ion Exchange Vessels
- Strong Acid Cation Resins
- Strong Base Anion Resins
- Ion Exchange Systems
- Ion Exchange Regeneration



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Topic Breakdown

Ion Exchange: Analysis

- Ions
- Problems Caused by Ions
- Conductivity
- Silica
- Silica Analysis
- Organics
- TOC Analysis
- Strong Acids
- Weak Acids
- Strong Base
- Weak Bases

Ion Exchange Principles

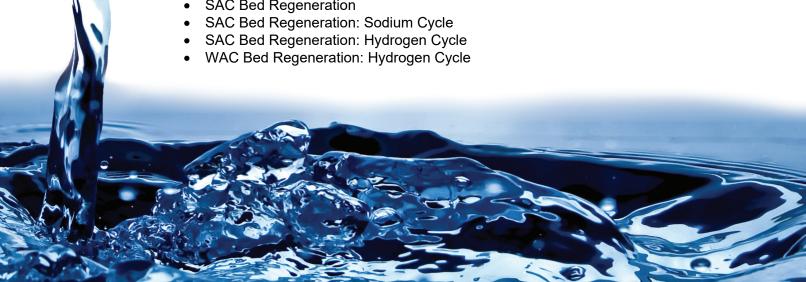
- Ion Exchange Principles: Solution Neutrality
- Ion Exchange Principles: Ion Exchange
- Ion Exchange Principles: Resin Beads
- Ion Exchange Principles: Strong Acid Cation (SAC)
- Ion Exchange Principles: Strong Base Anion (SBA)
- Ion Exchange Principles: Weak Acid Cation (WAC)
- Ion Exchange Principles: Weak Base Anion (WBA)
- Ion Exchange Principles: Resin Sheet

Ion Exchange Vessels

- Single Beds External Construction
- Single Beds Internal Construction
- Mixed Beds External Construction
- Mixed Beds Internal Construction

Strong Acid Cation (SAC) Resins

- SAC Exchangers
- SAC Exchangers: Sodium Cycle (Softening)
- SAC Exchangers: Hydrogen Cycle
- SAC Bed Regeneration





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Strong Base Anion (SBA) Resins

- SBA Exchangers: Chloride Cycle (Dealkalizing)
- SBA Exchangers: Hydroxide Cycle
- SBA Bed Regeneration
- WBA Bed Regeneration: Hydroxide Cycle

Ion Exchange Systems

- Electrodeionization (EDI)
- Ion Exchange Systems
- Ion Exchange Systems: Dual Beds
- Ion Exchange Systems: Multiple Single Beds
- Ion Exchange Systems: Full Train
- Ion Exchange Systems: Reverse Osmosis & Mixed Bed

Ion Exchange Regeneration

- Dual-Bed Regeneration
- Multiple-Bed Regeneration
- Monitoring & Troubleshooting Single Bed Regeneration





DHP's Training Methodology

DHP uses the consulting services of a Doctor of Education from Columbia University (Dr. Linda Paul) in the development of its online training courses. DHP's training methodology includes:

- Short, interesting, interactive lecture sessions using:

