

# 1/2 Day Centrifugal Pump Seminar for Design Engineers

## by R.J. Santiago, CPD, GPD

R.J. earned his Bachelor of Science in Mechanical Engineering from California State University, Fullerton, and has a Certified Plumbing Design (CPD) and Green Plumbing Design (GPD) certifications. As a Project Manager at a consulting firm, he was instrumental in multiplying the company's revenue by ten. RJ had the privilege of leading a team of elite engineers overseeing both local and international projects. Presently, he is a key player in Dawson Co.'s Business Development Group, where he supports mechanical and plumbing engineers with their hydronic needs.

## Who Should Attend?

## **Design Engineers**

## Information to Be Covered

#### PUMP 101

#### PUMP 102

- Types of Pumps
- What a Pump Does
- Pump Curve Characteristics
- System Curve Introduction (including affinity laws)
- Pump Identification in the Field (using pressure gauges when there is no nameplate info)
- System Syzer Introduction
- Pump Accessories
- Troubleshooting:
- Over-pumping
- Under-pumping
- Cavitation

#### **PUMP 103**

- Open/Closed Systems
- Parallel/Series Pumping
- Parallel Pumping and Having System Curve Cross Single Pump Curve
- Show examples of how control head and reducing the speed effect this
- Pump Components
- Motor Basics

### Friday, April 26, 2024 8:00 AM - 12:00 PM

## SAN DIEGO OFFICE, 9181 Chesapeake Drive, San Diego, CA 92123 | Tel: 858-541-7867 Water, coffee, soda, and lunch will be provided

To ensure that each attendee receives the full benefit of this seminar, the class size is limited to 18 attendees.

Name	Name
Company	Company
Phone	Phone
Email	Email
Name Company Phone Email	<ul> <li>(A) Total Number of Persons Attending</li> <li>(B) Total Cost of Seminar per Person: \$25.00</li> <li>Total Enclosed (AxB): \$</li> <li>Please let us know if you have any dietary requirements:</li> </ul>
Payment Method 1 - https://dawson-company.coursestorm.com/ Payment Method 2 - check - Mail to: Dawson Company, P.O. Box 6011, Pomona, CA 91769-6011	

Payment Method 3 - credit card (Visa/MasterCard/American Express) - Contact Crystal Olguin at 626-797-9710 ext. 121, colguin@dawsonco.com