# Wednesday, May 27, 2020

### 1:00 pm - 3:00 pm

## **CWEA Electrical / Instrumentation Technician - Grade 2 Certification Training Webinar**

Learning Objective(s): After participating in this session, attendees will be able to:

- Identity what to study.
- Describe what they need to learn before the test.
- Discuss how to take the exam.

CWEA Contact Hours: 2.4 towards Electrical / Instrumentation Technician Certification



Introducer: Roy Reynolds, Mechanical Maintenance Supervisor, Orange County Sanitation District

Roy Reynolds has 28 years of experience in the wastewater field. The last 18 years he has been a Maintenance Supervisor at Orange County Sanitation District in Southern California. He served in the U.S. Navy, assigned to the Seabees stationed in San Diego, before the Battalion moved to Port Hueneme California. He has been active in the CWEA sitting on many of the Local and State committees related to Maintenance and Certification. Currently serving the CWEA as the SARBS TCP Committee Chair.

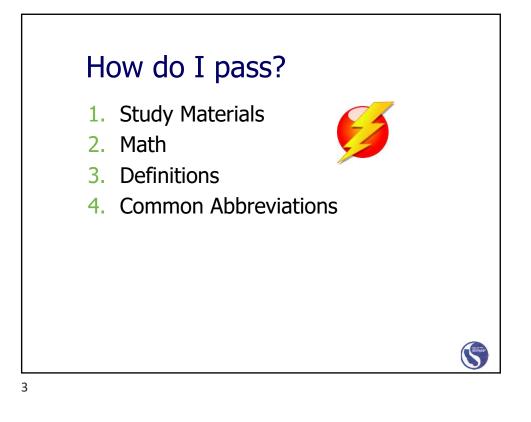


Speaker: Ralph Stevens, Principal, Water- CMRP, CESCP, PinnacleART

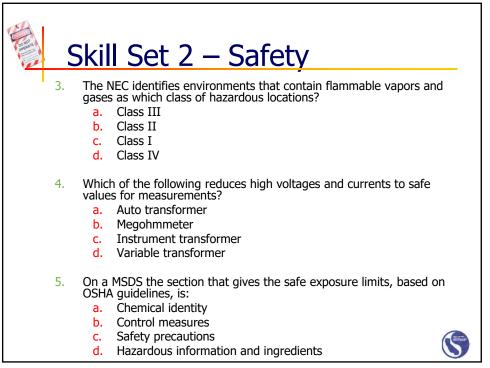
Ralph Stevens has over 35 years in Water/Wastewater in plants from 1MGD to 900MGD, Certifications include: CMRP Certified Maintenance and Reliability Professional, CESCP Certified Electrical Safety Compliance Professional, CWEA Grade 4 E&I, WWTPO Grade 3, NWEA Mechanical Grade 3. Started out as an Electrician in the Deep Tunnel Chicago ended up in Leadership. Ralph is a strong believer in Reliability Centered Maintenance and Thinking thru Troubleshooting. Looking to give back to our industry and help all I can

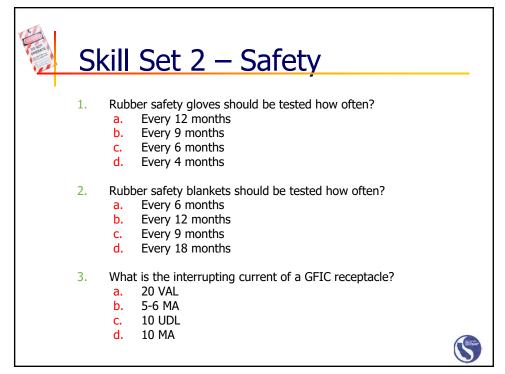


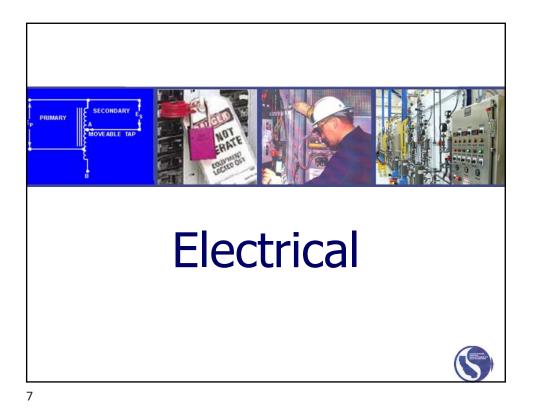


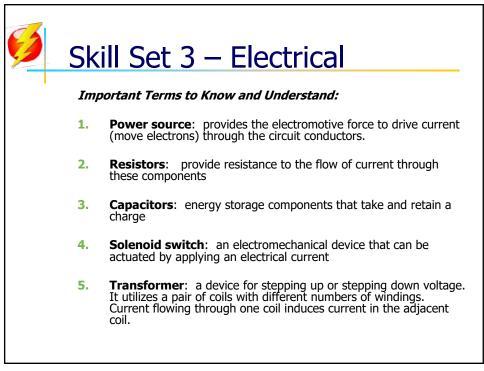


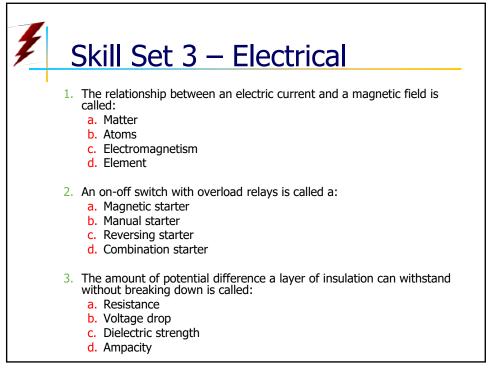












R	Skill Set 3 – Electrical
	<ul> <li>4. What is the name of the property of a coil of wire that opposes any change in the current in the coil?</li> <li>a. Inductance</li> <li>b. Resistance</li> </ul>
	<ul> <li>c. Impedance</li> <li>d. Watts</li> </ul> 5. What device changes alternating current to a different combination of
	<ol> <li>What device changes alternating current to a different combination of potential difference and current?</li> <li>a. Generator</li> <li>b. Capacitor</li> <li>c. Alternator</li> </ol>
	<ul><li>d. Transformer</li><li>6. How does the power going into a transformer compare to the power</li></ul>
	coming out? a. Lower b. Equal c. Double d. Higher

