

UMPQUA COMMUNITY COLLEGE
Roseburg, Oregon

Course No.: CC 220
Credit Hours: 0
Lecture Hours: 20
Lab Hours: 10
Clock Hours: 30
Length of Course:

Course Title: **Limited Pump Installer's Specialty License Course**
Developed By: Orenco Systems, Inc.
Date:
Revision Date:

Course Description:

This course will provide the electrical background and techniques necessary for a contractor to install and service residential pumping systems. This course will serve in lieu of the one year experience required for the Limited Pump Installer's license.

Course Objectives:

- Demonstrate an understanding of electrical hazards and electrical safety practices.
- Relate the theory of electrical circuits.
- Demonstrate understanding of the codes that govern electrical pumping installations.
- Describe wiring termination and conduit installation practices in accordance with the National Electrical Code.
- Demonstrate the ability to properly wire and troubleshoot electrical pumping systems, using a variety of voltages and control systems

Required Text:

Limited Pump Installers Specialty License, Contractor's Training Manual: Orenco Systems, Inc.
2008 revision (provided)

Limited Pump Installer's Specialty License Course Agenda

Day 1

8:00 AM Introduction and Oregon rules
Electrical Safety
12:00 AM Lunch
1:00 PM Electrical Theory
National Electrical Code
5:00 Class Adjourned

Day 2

8:00 AM Electrical Theory
National Electrical Code
12:00 AM Lunch
1:00 PM National Electrical Code
5:00 Class Adjourned

Day 3

8:00 AM National Electrical Code
Motor and power calculations
License Applications filled out
12:00 AM Lunch
1:00 PM Conduit bending
Motor theory
Control Circuits
Hands-on intro
5:00 Class Adjourned

Day 4

8:00 AM Hands-on wiring and measurement
Hands-on troubleshooting
1:00 PM Class Completed

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- Σ Testing not designed to provide instruction and unsupervised study.
- Σ Class instruction beyond the first presentation, writing or research on a paper or report.

Partially completed educational experiences unless within a larger educational program where logical and individual topics do not rely on other topics in the program to convey information.

September 8, 2016



Instructor Background And Information Form

Thank you for filling out this form.

Presentation Title: Limited Pump Installers Specialty License Course

Presenter: William (Bill) Rattledge Title: Electrician / Instructor

Employer: Umpqua Community College Address: P.O. Box 794

City: Sutherlin State: OR Zip: 97479 Phone: (541)430-0132

Summary of Lesson content: This course provides the electrical background & techniques necessary for a contractor to install & service residential pumping systems.

This course services in lieu of one year experience required for Limited Pump Installers License.
Professional Background: (Note a brief - 2 page maximum - resume may be submitted in lieu of the following data. License.
Please be sure the resume includes all requested information. Qualifications should be related to your presentation.)
Use the reverse side of this form if more room is needed to fully answer the following questions.

Primary Knowledge/Skills/Abilities related to presentation: _____

Education (High School, Upgrades, Colleges and Degrees): _____

Professional Registration/Certification: _____

Related papers/instruction you have presented:

Title: _____ Date: _____ Event: _____

Title _____ Date: _____ Event: _____

Professional Organizations/Activities:

_____ Date: _____

_____ Date: _____

Course sponsor: Umpqua Community College - Carissa Gilpin, Program Coordinator

Signature of Instructor: [Signature] Date: 6/1/2023

DO NOT WRITE BELOW THIS LINE

Date Evaluated: _____ By: _____ Approved: Yes _____ No _____

Return Completed Form To: OESAC CEU COMMITTEE
P.O. Box 577
Canby, OR 97013-0577
Email: info@oesac.org
Phone: 503-698-6486

William (Better Way Bill) E. Ratledge

PO Box 794

Sutherlin, Oregon 97479

(541) 430-0132

bill.ratledge@yahoo.com

Professional Experience Summary

Civilian

2010 - present

Self-Employed with one employee and working under the name of Better Way Electric LLC, I have successfully completed numerous residential and light to medium commercial projects including new construction, remodel construction and service work for an expanding base of satisfied customers who often become friends as well. This has, by far, been the most rewarding and fulfilling of all work experience listed to date. Most of my business is by personal referral.

1999 - 2009

As an electrician I have worked for several different companies on numerous commercial projects, both track and custom homes, a variety of wood product mills, and Murray Electric's Prefab Shop. Having begun work for electrical contractors prior to becoming an apprentice my duties have varied with the different departments I have worked in but have included the following: estimating, project layout, Auto CAD, Excel, and assistant manager.

1992 - 1999

Seven years were invested here gaining experience in general construction and equipment maintenance with R.E. Noah and Co. General Contractors. While working for R.E. Noah, most of my time was spent with the metal building crew but I was also allowed the opportunity to become experienced in carpentry, concrete forming and finishing, and as a heavy equipment operator.

Military

1989 - 1992

Three years experience as a diesel mechanic. Found myself attached to a small maintenance and repair team assigned to XVIII Airborne Corps Command Team for the duration of Desert Storm. Military awards include the following: Southwest Asia Service Medal, Kuwait Liberation Medal.

Education & Professional Licenses / Certifications

- Three Electrical Inspector certifications, State of Oregon 2010
 - General Supervising Electrician License #5569S, State of Oregon, 2010
 - A.A.S. Degree, Industrial Technology, UCC, Roseburg, OR, 2004
 - A.A.S. Degree, Civil Engineering Technology, UCC, Roseburg, OR, 1998
- Awards: Harry Jacoby, Presidential Scholarship, Outstanding Student
Honors: President of Engineering Club, Member of Phi Theta Kappa, GPA 3.82
- Tracked Vehicle Recovery Course, Aberdeen Proving Ground, MD, 1989
 - Tracked Vehicle Repair Course Diploma, Aberdeen Proving Ground, MD, 1989
 - U.S. Army Basic Training, Ft. Dix, NJ, 1989
 - High School Diploma, Oakland High School, Oakland, OR, 1988

5/17/2023