

## Clackamas Community College

### Online Course/Outline Submission System

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#### Section #1 General Course Information

**Department:** Apprenticeship

**Submitter**

First Name: Shelly

Last Name: Tracy

Phone: 0945

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**Course Prefix and Number:** APR - 119UW

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**# Credits:** 2

**Contact hours**

Lecture (# of hours):

Lec/lab (# of hours): 40

Lab (# of hours):

Total course hours: 40

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

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**Course Title:** Batteryman Overview

**Course Description:**

Wire apprentices will experience the daily duties of Batteryman including the installation, testing, maintenance and repair of substation batteries. Additionally they will learn about the computer applications, instruction manuals and schematics that Batteryman use. Safety on the job and first aid will be covered.

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**Type of Course:** Career Technical Apprenticeship

Can this course be repeated for credit in a degree?

**No**

Does this course map to any general education outcome(s)?

**No**

Is this course part of an AAS or related certificate of completion?

**Yes**

**Name of degree(s) and/or certificate(s):** Electrician Apprenticeship Technologies AAS

Are there prerequisites to this course?

**No**

Are there corequisites to this course?

**No**

Are there any requirements or recommendations for students taken this course?

**No**

Are there similar courses existing in other programs or disciplines at CCC?

**No**

Will this class use library resources?

**Yes**

**Have you talked with a librarian regarding that impact?**

**No**

Is there any other potential impact on another department?

**No**

Does this course belong on the Related Instruction list?

**No**

GRADING METHOD:

**A-F Only**

**Audit: No**

When do you plan to offer this course?

**✓ Not every term**

Is this course equivalent to another?

If yes, they must have the same description and outcomes.

**No**

Will this course appear in the college catalog?

**No**

Will this course appear in the schedule?

**No**

**Student Learning Outcomes:**

Upon successful completion of this course, students should be able to:

1. explain why Batterymen install and maintain station and substation batteries and chargers on an annual basis, take voltage readings, hydrometer readings, check electrolyte, add water if needed, equalize battery with charger;
2. describe how Batterymen clean, check, test, repair, and/or replace battery cells on dead or energized batteries, replace or repair corroding terminals;
3. summarize the process of how Batterymen replace, maintain, and test battery chargers,
4. identify how alarms trigger work through System Control, Dispatchers or Inspectors;
5. name the different computer applications Batterymen use to troubleshoot alarms,
6. explain the importance of working with test instruments as necessary to perform: electronic troubleshooting and maintenance, load testing, use and set up a battery trailer and the computer applications used in testing;
7. state how Batterymen must be willing and able to work alone efficiently and with limited supervision,
7. cite examples of how Batterymen interpret and use instruction manuals and read electronic schematics and wiring diagrams,
8. acknowledge that Batterymen are compliant with first-aid procedures, company safety rules, and clearance and tagging protocol.

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***This course does not include assessable General Education outcomes.***

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**Major Topic Outline:**

1. Installation and maintenance of station and substation batteries.
2. Clean, check, test, repair, and/or replace battery cells.
3. Replace, maintain, and test battery chargers.
4. Different computer applications Batterymen use.
5. Interpret and use instruction manuals and read electronic schematics.
6. First-aid procedures, company safety rules, clearance and tagging protocol.

**Does the content of this class relate to job skills in any of the following areas:**

- |                                      |           |
|--------------------------------------|-----------|
| 1. Increased energy efficiency       | <b>No</b> |
| 2. Produce renewable energy          | <b>No</b> |
| 3. Prevent environmental degradation | <b>No</b> |
| 4. Clean up natural environment      | <b>No</b> |
| 5. Supports green services           | <b>No</b> |

Percent of course: 0%

First term to be offered:

**Next available term after approval**

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