

Clackamas Community College
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Section #1 General Course Information

Department:Energy & Utility Resource Management

Submitter

First Name: Shelly

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Course Prefix and Number:ERM - 161

Credits:4

Contact hours

Lecture (# of hours):

Lec/lab (# of hours): 80

Lab (# of hours):

Total course hours: 80

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.

Course Title:Utility Industry Safety Development

Course Description:

Explore diverse applications of safety and performance in the workplace. Personal safety, work zone protection, dealing with chemicals and use of MSD sheets, vehicle inspection and safety, competent work practices that ensure both safety on the job and proven work performance.

Type of Course:Career Technical Preparatory

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

No

Is general education certification being sought at this time?

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):Utility Workforce Readiness Pathway Cert., Utility Trade Prep: Lineworker Pathway Cert., Utility Field Technician Pathway Cert.

Are there prerequisites to this course?

Yes

Pre-reqs:Pass ERM-160 with a C or better

Have you consulted with the appropriate chair if the pre-req is in another program?

No

Are there corequisites to this course?

No

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

Yes

Recommendations:None

Requirements:Instructor consent

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

No

Will this class use library resources?

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:Yes

When do you plan to offer this course?

✓ **Winter**

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?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

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

1. state the protocol when responding to a hazardous spill response,
2. explain the purpose and use of Material Safety Data Sheets,
3. name types of Personal Protection Equipment (PPE) and their application and function,
4. demonstrate knowledge for safe work practices in work zone protection,
5. determine a model to distinguish the influence and impact of safe work practice errors,
6. demonstrate the skill to acquire a flagging card,
7. demonstrate tying knots and state their purpose and application in the field,
8. demonstrate a pre-trip inspection and trailer backing,
9. demonstrate the use of rigging and applications of raising/lowering transformers and raising cross arms for installation,
10. demonstrate use of shoring in a trench, and explain the dangers of working in a trench.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Introduction to the transformer lab.
2. Introduction to the high bay and tools of the trade.
3. Introduction to meters and what a meterman does.

4. Strategies to improve safe work practices.
 - a. Hazardous Spill Response.
 - b. Material Safety Data Sheets (MSDS).

5. Personal responsibility for safe work practices.
 - a. Personal Protective Equipment (PPE).
 - b. Work Zone Protection (Flagging).
 - c. Correct use of knots in work applications.

6. Transportation.

- a. Safe Driver Responsibilities.
 - b. Pre-trip Inspection.
 - c. Trailer Backing.
 - d. Safe working load.
7. Job Site.
- a. Tailboard (worksite and job layout).
 - b. Distribution Maps.
 - c. Hand Signals.
 - d. Basic Ropes & Knots.
 - e. Basic Capstan & Rigging.
 - f. Bucket Truck (raising transformers & cross arms).
 - g. Trenching & Shoring.
8. Performing the Job Safely (application of).
- a. Confined Space & Air Monitors.
 - b. Work Zone Protection.
 - c. Line locates & special tester responsibilities.

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

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

Percent of course:0%

First term to be offered:

Next available term after approval

:
