



# INSTRUCTIONAL PACKAGE

ELW 114

Overhead Line Construction I

Effective Term  
Spring 2020

## INSTRUCTIONAL PACKAGE

### PART I: COURSE INFORMATION

Effective Term: 2019.10

COURSE PREFIX: ELW 114

COURSE TITLE: Overhead Line Construction I

CONTACT HOURS: 5.0

CREDIT HOURS: 3.0

### RATIONALE FOR THE COURSE:

Utility requirements for job placement and duties related to industry.

### COURSE DESCRIPTION:

This course introduces the basics of overhead power line construction. Topics include safe work habits, protective equipment and pole climbing techniques.

### PREREQUISITES/CO-REQUISITES:

**COMPASS** Reading 65 (Same as for ENG 100) Writing 31 (Same as for ENG 100) Pre-Algebra 40 (Same as for MAT 155) Algebra 26.

**SAT** Reading 380 Math 400 (MAT 101 placement or use COMPASS Math placement)

**ACT** Reading 14 English 12 Math 16 (MAT 101 placement or use COMPASS Math placement)

**ASSET** Reading 37 Writing 37 Pre- Algebra 37

**Accuplacer** Reading 56 Writing 48 Arithmetic 43 Algebra 50

**Companion** Reading 56 Writing 48 Arithmetic 43 Algebra 50

### REQUIRED MATERIALS:

Please visit the Bookstore online site for most current textbook information. Use the direct link below to find textbooks.

[BOOKSTORE](#).

Enter the semester, course prefix, number and section when prompted and you will be linked to the correct textbook.

### ADDITIONAL REQUIREMENTS:

Linemen climbing gear, tools, and safety equipment. **\*\*Note: These items are discussed, planned, and ordered within the first week of ELW courses. You will have ample time to have these items in place when ELW114 starts. \*\***

### TECHNICAL REQUIREMENTS:

Access to Desire2Learn (D2L), HGTC's student portal for course materials.

WaveNet and D2L email access.

## **CLASSROOM ETIQUETTE:**

As a matter of courtesy to other students and your professor, please turn off cell phones and other communication/entertainment devices before class begins. If you are monitoring for an emergency, please notify your professor prior to class and switch cell phone ringers to vibrate.

## **Part II: Student Learning Outcomes**

### **COURSE LEARNING OUTCOMES and ASSESSMENTS\*:**

- The ability to safely climb wood poles and proper use of climbing equipment including fall protection.
- Ability to prepare and install pole line hardware.
- Ability to layout and sag overhead line conductors including primary lines and secondary lines
- Proper connection types, installation of connection, and their associated tools.
- Know parameters of work site locations and safety zones.
- Proper use of ropes, knots, and sagging equipment.
- Ability to identify and use insulated devices.

### **General Education Outcomes**

This course fulfills the following General Education Outcomes through transformer trouble shooting. Upon completion of this course, students will be able to:

- ☐ Communicate effectively;
- ☒ Think critically;
- ☐ Self and professional development.

***\*Students – please refer to the Instructor’s Course Information sheet for specific information on assessments and due dates.***

### **Effective Professional and Interpersonal Communication (EPIC)**

This course fulfills HGTC’s Quality Enhancement Plan for Effective Professional and Interpersonal Communication. Upon completion of this course, students will be able to:

(Check all that apply.)

- ☒ Utilize appropriate communication formats when conveying professional and interpersonal thoughts and ideas.
- ☒ Apply appropriate language when speaking and writing for their chosen field of study or Industry.
- ☐ Demonstrate appropriate communication techniques when engaging audiences.

***\*Students – please refer to the Instructor’s Course Information sheet for specific information on assessments and due dates.***

***The following is a specific breakdown of competencies and skills developed in this course.***

## **Unit 1**

### **POLE HARDWARE PREPARATION**

PPE – Personal Protective Equipment  
Prepare cross arms with proper insulators and equipment  
Switch preparation  
Clevis preparation  
Conductor preparation  
Conductor dead-end preparation  
Transformer preparation  
Connections, includes connectors and tooling

## **Unit 2**

### **INTRODUCTION CLIMBING**

PPE – Personal Protective Equipment  
Climbing Belt  
Climbing Hooks (Gaffs)  
Fall Arrest  
Organizing your belt  
Required equipment on belt  
Proper storage and transport

## **Unit 3**

### **POLE CLIMBING (10')**

Proper wearing of belt and hooks  
Proper setting and adjusting of fall protection to pole  
Safely recover from slip or fall  
Climb ranging from 5 to 10' from ground  
Fall protection flip/slide techniques to ascend/descend pole  
Rotation around pole  
Dexterity in receiving and distributing items (hands free from pole)

### **POLE CLIMBING (FULL POLE)**

Crossing over material or conductor obstructions  
Use of hand tools  
Removing/installing conductor from insulators  
Removing/installing hardware from pole  
Live line clearance requirements  
Use of knots to send/receive items from hand line  
Use of hand lines and sagging equipment to receive conductor  
Connection of primary conductor to transformer  
Connection of secondary conductor to transformer

## **Unit 4**

## **OVERHEAD LINE/EQUIPMENT REMOVAL**

Removal of conductor – descend from pole(s)

Removal of pole hardware - descend from pole(s)

## **Part III: Grading and Assessment**

### **EVALUATION OF REQUIRED COURSE MEASURES/ARTIFACTS\***

Students' performance will be assessed and the weight associated with the various measures/artifacts are listed below.

### **EVALUATION\***

Exam	100%
------	------

***\*Students, for the specific number and type of evaluations, please refer to the Instructor's Course Information Sheet.***

### **GRADING SYSTEM:**

State the College's or departmental grading system as delineated in the Catalog. Please note the College adheres to a 10 point grading scale A = 100 – 90, B = 89- 80, C = 79 – 70, D = 69 – 60, F = 59 and below. You must have your Dean's approval if changes in the scale are made.

Grades earned in courses impact academic progression and financial aid status. Before withdrawing from a course, be sure to talk with your instructor and financial aid counselor about the implications of that course of action. Ds, Fs, Ws, WFs and Is also negatively impact academic progression and financial aid status.

The Add/Drop Period is the first 5 days of the semester for **full term** classes. Add/Drop periods are shorter for accelerated format courses. Please refer to the academic calendar for deadlines for add/drop ([ACADEMIC CALENDAR](#)). You must attend at least one meeting of all of your classes during that period. If you do not, you will be dropped from the course(s) and your Financial Aid will be reduced accordingly.

## **Part IV: Attendance**

Horry-Georgetown Technical College maintains a general attendance policy requiring students to be present for a minimum of 80 percent (80%) of their classes in order to receive credit for any course. Due to the varied nature of courses taught at the college, some faculty may require up to 90 percent (90%) attendance. Pursuant to 34 Code of Federal Regulations 228.22 - Return to Title IV Funds, once a student has missed over 20% of the course or has missed two (2) consecutive weeks, the faculty is obligated to withdraw the student and a student may not be permitted to reenroll. **Instructors define absentee limits for their class at the beginning of each term; please refer to the Instructor Course Information Sheet.**

## Effective Professional and Interpersonal Communication (EPIC)

This course fulfills HGTC's Quality Enhancement Plan for Effective Professional and Interpersonal Communication. Upon completion of this course, students will be able to:

(Check all that apply.)

Utilize appropriate communication formats when conveying professional and interpersonal thoughts and ideas.

Apply appropriate language when speaking and writing for their chosen field of study or industry.

Demonstrate appropriate communication techniques when engaging audiences.

## Part V: Student Resources

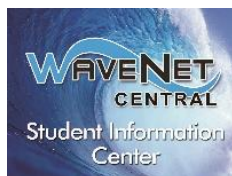


### The Student Success and Tutoring Center (SSTC)

The SSTC offers to all students the following **free** resources:

1. **Academic coaches** for most subject areas, **Writing Center Support**, and **college success skills**.
2. **On-line student success and academic support resources**.

Visit the SSTC website: [Student Success & Tutoring Center](#) and visit the student services tab in your WaveNet account to schedule appointments using TutorTrac. For more information, call: SSTC Conway, 349-7872; SSTC Grand Strand, 477-2113; and SSTC Georgetown, 520-1455. Room locations and Live Chat is available on the SSTC website.



### Student Information Center: WaveNet Central (WNC)

WNC offers to all students the following **free** resources:

1. **Getting around HGTC**: General information and guidance for enrollment!
2. Use the [Online Resource Center \(ORC\)](#) for COMPASS support, technology education, and online tools.
3. **Drop-in technology support or scheduled training** in the Center or in class.
4. **In-person workshops, online tutorials and more services** are available.

Visit the WNC website: [Wavenet Central](#). Live Chat and Center locations are posted on the website. Or please call one of the following locations: WNC Conway, 349-5182; WNC Grand Strand, 477-2076; and WNC Georgetown, 520-1473.

**Student Testing:** (If course is offered in multiple format include this section, delete if only F2F sections are offered.)

Testing in an **online/hybrid** course may be accomplished in a variety of ways:

- Test administered within D2L
- Test administered in writing on paper
- Test administered through Publisher Platforms

Further more tests may have time limits and/or require a proctor.

Proctoring can be accomplished either face-to-face at an approved site or online through RPNOW, our online proctoring service. To find out more about proctoring services, please visit the [Online Testing](#) section of the HGTC's Testing Center webpage.

The **Instructor Information Sheet** will have more details on test requirements for your course.

## **Disability Services:**

HGTC is committed to providing an accessible environment for students with disabilities. Inquiries may be directed to Beth Havens, Director of Student Development on the Conway Campus Jaime Davis, Counselor/Advisor on the Georgetown Campus or Kristin Griffin, Counselor on the Grand Strand Campus. These individuals will review documentation of the student's disability and, in a confidential setting with the student, develop an educational accommodation plan.

Note: It is the student's responsibility to self-identify as needing accommodations and to provide acceptable documentation. After a student has self-identified and submitted documentation of a disability, accommodations may be determined, accepted, and provided.

## **Statement of Equal Opportunity/Non-Discrimination Statement**

Horry-Georgetown Technical College prohibits discrimination and harassment, including sexual harassment and abuse, on the basis of race, color, sex, national or ethnic origin, age, religion, disability, marital or family status, veteran status, political ideas, sexual orientation, gender identity, or pregnancy, childbirth, or related medical conditions, including, but not limited to, lactation in educational programs and/or activities.

Inquiries regarding the non-discrimination policies: Students and prospective student inquiries concerning Section 504, Title II, and Title IX and their application to the College or any student decision may be directed to the Vice President for Student Affairs, Dr. Melissa Batten, VP Student Affairs, Title IX Coordinator, Building 1100, Room 107A, Conway Campus, PO Box 261966, Conway, SC 29528-6066, 843-349-5228, [Melissa.Batten@hgtc.edu](mailto:Melissa.Batten@hgtc.edu). Employee and applicant inquiries concerning Section 504, Title II, and Title IX and their application to the College may be directed to the Vice President for Human Resources, Jacquelyne Snyder, VP Human Resources, Section 504, Title II, and Title IX Coordinator, Building 200, Room 212A, Conway Campus, PO Box 261966, Conway, SC 29528-6066, 843-349-5212, [Jacquelyne.Snyder@hgtc.edu](mailto:Jacquelyne.Snyder@hgtc.edu).

## **Title IX Requirements**

All students (as well as other persons) at Horry-Georgetown Technical College are protected by Title IX—regardless of their sex, sexual orientation, gender identity, part- or full-time status, disability, race, or national origin—in all aspects of educational programs and activities. Any student, or other member of the college community, who believes that he/she is or has been a victim of sexual harassment or sexual violence may file a report with the college’s Chief Student Services Officer, campus law enforcement, or with the college’s Title IX Coordinator, or designee.

\*Faculty and Staff are required to report incidents to the Title IX Coordinators when involving students. The only HGTC employees exempt from mandatory reporting are licensed mental health professionals (only as part of their job description such as counseling services).

<b>Inquiries regarding the non-discrimination policies:</b>	
Student and prospective student inquiries concerning Section 504, Title II, and Title IX and their application to the College or any student decision may be directed to the Vice President for Student Affairs.	Employee and applicant inquiries concerning Section 504, Title II, and Title IX and their application to the College may be directed to the Vice President for Human Resources.
<b>Dr. Melissa Batten, VP Student Affairs</b> <i>Title IX Coordinator</i>  Building 1100, Room 107A, Conway Campus PO Box 261966, Conway, SC 29528-6066 843-349-5228 <a href="mailto:Melissa.Batten@hgtc.edu">Melissa.Batten@hgtc.edu</a>	<b>Jacquelyne Snyder, VP Human Resources</b> <i>Section 504, Title II, and Title IX Coordinator</i> Building 200, Room 212A, Conway Campus PO Box 261966, Conway, SC 29528-6066 843-349-5212 <a href="mailto:Jacquelyne.Snyder@hgtc.edu">Jacquelyne.Snyder@hgtc.edu</a>