

**ELECTRICAL LINEWORKER 4**  
**COURSE CODE: 6308**  
**STUDENT PROFILE**

|   |  |                        |          |          |          |
|---|--|------------------------|----------|----------|----------|
| <b>STUDENT'S NAME:</b>  |  | <b>TEACHER'S NAME:</b> |          |          |          |
| <b>School Year/Semester:</b>  |  | <b>Date Begin:</b>     |          |          |          |
| <b>Grade:</b>   |  | <b>Date Completed:</b> |          |          |          |
| <p><b>Directions:</b> Document student's progress using the applicable rating scales below: Enter date of completion under the appropriate column.</p> <p>0 - Has not received instruction in this area / <b>no experience or knowledge of this task (N/A)</b></p> <p>1 – Can apply and perform <b>independently (80-100)</b></p> <p>2 – Can perform the task completely with <b>limited supervision (70-79)</b></p> <p>3 – Requires additional instruction and or <b>close supervision (60-69)</b></p> |  |                        |          |          |          |
| <b>A. STUDENT ORGANIZATIONS</b>   |  | <b>0</b>               | <b>1</b> | <b>2</b> | <b>3</b> |
| 1   | Identify the purpose and goals of a Career and Technology Student Organization (CTSO).   |                        |          |          |          |
| 2   | Explain how CTSOs are integral parts of specific clusters, majors, and/or courses.   |                        |          |          |          |
| 3   | Explain the benefits and responsibilities of being a member of a CTSO.   |                        |          |          |          |
| 4   | List leadership opportunities that are available to students through participation in CTSO conferences, competitions, community service, philanthropy, and other activities.   |                        |          |          |          |
| 5   | Explain how participation in CTSOs can promote lifelong benefits in other professional and civic organizations.  |                        |          |          |          |
| <b>B. TECHNOLOGY KNOWLEDGE</b>  |  | <b>0</b>               | <b>1</b> | <b>2</b> | <b>3</b> |
| 1   | Demonstrate proficiency and skills associated with the use of technologies that are common to a specific occupation  |                        |          |          |          |
| 2   | Identify proper netiquette when using e-mail, social media, and other technologies for communication purposes.   |                        |          |          |          |
| 3   | Identify potential abuse and unethical uses of laptops, tablets, computers, and/or networks.   |                        |          |          |          |
| 4   | Explain the consequences of social, illegal, and unethical uses of technology (e.g., cyber bullying; piracy; illegal downloading; cyberbullying; licensing, infringement; inappropriate uses of software, hardware, and mobile devices in the work environment). |                        |          |          |          |

|   |  |  |  |  |  |
|---|--|--|--|--|--|
| 5 | Discuss legal issues and the terms of use related to copyright laws, fair use laws, and ethics pertaining to downloading of images, photographs, Creative Commons, documents, video, sounds, music, trademarks, and other elements for personal use. |  |  |  |  |
| 6 | Describe ethical and legal practices of safeguarding the confidentiality of business-related information.  |  |  |  |  |
| 7 | Describe possible threats to a laptop, tablet, computer, and/or network and methods of avoiding attacks.   |  |  |  |  |

| C. PERSONAL QUALITIES AND EMPLOYABILITY SKILLS |  | 0 | 1 | 2 | 3 |
|--|--|---|---|---|---|
| 1  | Demonstrate punctuality.                             |   |   |   |   |
| 2  | Demonstrate self-representation.                     |   |   |   |   |
| 3  | Demonstrate work ethic.                              |   |   |   |   |
| 4  | Demonstrate respect.                                 |   |   |   |   |
| 5  | Demonstrate time management.                         |   |   |   |   |
| 6  | Demonstrate integrity.                               |   |   |   |   |
| 7  | Demonstrate leadership.                              |   |   |   |   |
| 8  | Demonstrate teamwork and collaboration.              |   |   |   |   |
| 9  | Demonstrate conflict resolution.                     |   |   |   |   |
| 10   | Demonstrate perseverance.                            |   |   |   |   |
| 11   | Demonstrate commitment.                              |   |   |   |   |
| 12   | Demonstrate a healthy view of competition            |   |   |   |   |
| 13   | Demonstrate a global perspective.                    |   |   |   |   |
| 14   | Demonstrate health and fitness.                      |   |   |   |   |
| 15   | Demonstrate self-direction.                          |   |   |   |   |
| 16   | Demonstrate lifelong learning.                       |   |   |   |   |
| D. PROFESSIONAL KNOWLEDGE                      |  | 0 | 1 | 2 | 3 |
| 1  | Demonstrate effective speaking and listening skills. |   |   |   |   |
| 2  | Demonstrate effective reading and writing skills.    |   |   |   |   |
| 3  | Demonstrate mathematical reasoning.                  |   |   |   |   |
| 4  | Demonstrate job-specific mathematics skills.         |   |   |   |   |

|    |   |  |  |  |  |
|----|---|--|--|--|--|
| 5  | Demonstrate critical-thinking and problem-solving skills.                                   |  |  |  |  |
| 6  | Demonstrate creativity and resourcefulness.   |  |  |  |  |
| 7  | Demonstrate an understanding of business ethics.  |  |  |  |  |
| 8  | Demonstrate confidentiality.  |  |  |  |  |
| 9  | Demonstrate an understanding of workplace structures, organizations, systems, and climates. |  |  |  |  |
| 10 | Demonstrate diversity awareness.  |  |  |  |  |
| 11 | Demonstrate job acquisition and advancement skills.   |  |  |  |  |
| 12 | Demonstrate task management skills.   |  |  |  |  |
| 13 | Demonstrate customer-service skills.  |  |  |  |  |

| <b>E. LOAD CALCULATIONS – FEEDERS AND SERVICES</b> |   | <b>0</b> | <b>1</b> | <b>2</b> | <b>3</b> |
|--|---|----------|----------|----------|----------|
| 1  | Explain basic load calculations for residential and commercial including raceway fill, conductor de-rating, and voltage drop. |          |          |          |          |
| <b>F. CONDUCTOR SELECTION AND CALCULATIONS</b>     |   | <b>0</b> | <b>1</b> | <b>2</b> | <b>3</b> |
| 1  | Explain the proper use of excavation equipment in the installation of underground utilities.                                  |          |          |          |          |
| 2  | Explain safe maintenance procedures and operations of excavation equipment.   |          |          |          |          |
| 3  | Explain proper installation of underground power lines.   |          |          |          |          |
| 4  | Explain proper grounding techniques.  |          |          |          |          |
| <b>G. SPECIALTY TRANSFORMERS</b>                   |   | <b>0</b> | <b>1</b> | <b>2</b> | <b>3</b> |
| 1  | Identify and describe various types of transformers.  |          |          |          |          |
| 2  | Proper safety precautions working with specialty transformers.  |          |          |          |          |
| <b>H. MEDIUM-VOLTAGE TERMINATIONS/SPLICES</b>      |   | <b>0</b> | <b>1</b> | <b>2</b> | <b>3</b> |
| 1  | Describe how to splice medium-voltage cable.  |          |          |          |          |
| 2  | Describe termination classes and important considerations when creating terminations.   |          |          |          |          |
| 3  | Define high-potential testing and explain how such testing is conducted.  |          |          |          |          |
| <b>I. UNDERGROUND SWITCHGEAR OPERATIONS</b>        |   | <b>0</b> | <b>1</b> | <b>2</b> | <b>3</b> |
| 1  | Explain proper use and maintenance of underground tools.  |          |          |          |          |

|   |   |  |  |  |  |
|---|---|--|--|--|--|
| 2 | Explain safety and proper use of PPE for underground systems. |  |  |  |  |
| 3 | Explain the operations of underground switchgears.            |  |  |  |  |
| 4 | Explain the operations of elbows and risers.                  |  |  |  |  |

| <b>J. FUNDAMENTALS OF CREW LEADERSHIP</b> |   | <b>0</b> | <b>1</b> | <b>2</b> | <b>3</b> |
|---|---|----------|----------|----------|----------|
| 1   | Describe current issues and organizational structures in industry today.  |          |          |          |          |
| 2   | Explain how to incorporate leadership skills into work habits, including communications, motivation, team-building, problem-solving, and decision-making skills.    |          |          |          |          |
| 3   | Identify a crew leader's typical safety responsibilities with respect to common safety issues, including awareness of safety regulations and the cost of accidents. |          |          |          |          |
| 4   | Demonstrate a basic understanding of the planning process, scheduling, and cost and resource control.   |          |          |          |          |
| <b>K. PROFESSIONAL DEVELOPMENT</b>        |   | <b>0</b> | <b>1</b> | <b>2</b> | <b>3</b> |
| 1   | Prepare and acquire appropriate electrical line worker certification.   |          |          |          |          |
| 2   | Prepare pre-employment documents for placement following program completion, e.g., resume', portfolio, certification(s).  |          |          |          |          |

| <b>N. UTILITY POLE USAGE</b>       |  | <b>0</b> | <b>1</b> | <b>2</b> | <b>3</b> |
|------------------------------------|--|----------|----------|----------|----------|
| 1                                  | Demonstrate appropriate pole setting.  |          |          |          |          |
| 2                                  | Determine construction measurements.   |          |          |          |          |
| 3                                  | Determine single-phase or three-phase construction.                          |          |          |          |          |
| 4                                  | Identify guy load values.  |          |          |          |          |
| 5                                  | Demonstrate proper guying techniques.  |          |          |          |          |
| 6                                  | Identify framing materials.  |          |          |          |          |
| 7                                  | Demonstrate appropriate framing techniques.                                  |          |          |          |          |
| <b>O. PROFESSIONAL DEVELOPMENT</b> |  | <b>0</b> | <b>1</b> | <b>2</b> | <b>3</b> |
| 1                                  | Research certifications appropriate to the Electrical Line Worker industry.  |          |          |          |          |
| 2                                  | Research appropriate interviewing skills and participate in mock interviews. |          |          |          |          |