# **Work Process Schedule**

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| Transmission Line Worker | |
| **Job Description:** Install, remove, maintain, and repair sub-transmission and distribution lines and associated equipment and facilities, as well as maintain safety for the public and for work crews during repair and construction work | |
| **RAPIDS Code:** 0282CB | **O\*NET Code:** 49-9051.00 |
| **Estimated Program Length:** 1 year | |
| **Apprenticeship Type:**  Competency-Based  Time-Based  Hybrid | |

Suggested On-the-Job Learning Outline

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| Prepares for work at job site with proper tools and equipment and a work plan that is sound, clearly communicated, and employs safety precautions | | |
| **Competencies** | **Date Completed** | **Initial** |
| 1. Properly uses and maintains tools and equipment including saws, digging equipment, drills, wrenches, compressors, presses, crimpers and dies |  |  |
| 1. Properly uses and maintains electrical measuring and testing equipment such as voltage meters, multi-meters, phase sequence indicators, etc. |  |  |
| 1. Properly assembles and uses ropes and rigging (handlines, hoisting equipment, slings, shackles, etc.) to ensure personal safety and to move equipment and materials |  |  |
| 1. Operates vehicular equipment properly, including trucks, diggers, and aerial lifts |  |  |
| 1. Plans job tasks and prepares work sites properly including communicating plan to crew and identifying hazards |  |  |
| 1. Adheres to safety requirements including safety of the site, personal safety and the safety of other workers and the community |  |  |

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| Abides by workplace health and safety rules, regulations, policies and best practices in carrying out job duties | | |
| **Competencies** | **Date Completed** | **Initial** |
| 1. Provides job site protection for the general public |  |  |
| 1. Performs hazard assessment and controls powerline hazards |  |  |
| 1. Controls environmental hazards |  |  |
| 1. Participates in workplace safety activities |  |  |
| 1. Utilizes personal protective devices and safety equipment properly and consistently (body harness, lanyard, anchor sling, etc.) |  |  |
| 1. Utilizes positioning devices and equipment properly (gaff, body belt, pole-choker, secondary lanyard, etc.) |  |  |

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| Installs electrical systems and related structures | | |
| **Competencies** | **Date Completed** | **Initial** |
| 1. Frames and sets power poles properly |  |  |
| 1. Installs pole guys and anchors; attachments; breakers/rods; etc. |  |  |
| 1. Installs and assembles steel structures |  |  |
| 1. Installs steel structure guy wires and anchors |  |  |

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| Constructs, maintains, and repairs overhead and underground distribution assets | | |
| **Competencies** | **Date Completed** | **Initial** |
| 1. Strings overhead conductors properly and safely |  |  |
| 1. Sags overhead conductors |  |  |
| 1. Ties-in overhead conductors |  |  |
| 1. Splices overhead conductors |  |  |
| **Underground** |  |  |
| 1. Digs trenches appropriately, using correct equipment and safety precautions – direct buried cables, ducted method, surface troughs, deep bore tunnels, cut and cover tunnels |  |  |
| 1. Selects appropriate components, cable sealants and compounds, joint bays, stop joints, water cooling systems (if applicable), using correct methods for insulating components and wires |  |  |
| 1. Identifies environmental hazards and barriers and plans/carries out appropriate mitigation strategies |  |  |
| 1. Identifies and mitigates land use restrictions |  |  |
| 1. Inspects, replaces and maintains cables and cable insulation at appropriate intervals and using correct materials and procedures |  |  |

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| Operates, maintains, and repairs distribution and transmission systems | | |
| **Competencies** | **Date Completed** | **Initial** |
| 1. Operates overhead and/or underground transmission systems |  |  |
| 1. Operates overhead and/or underground distribution systems |  |  |
| 1. Performs station switching |  |  |
| 1. Inspects distribution and transmission systems |  |  |
| 1. Maintains poles and steel structures |  |  |
| 1. Maintains system components |  |  |
| 1. Identifies and mitigates environmental hazards (i.e. tree trimming, rodent infestations, erosion, etc.) |  |  |
| 1. Repairs overhead and/or underground distribution systems |  |  |
| 1. Repairs overhead and/or underground transmission systems including components (cross arms, conductors, poles and insulators), switches, terminations and other devices |  |  |

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| Job Function | | |
| **Competencies** | **Date Completed** | **Initial** |
| 1. Uses appropriate personal and environmental protective devices and techniques to secure the work area and protect human safety |  |  |
| 1. Identifies and reviews appropriate repair manuals or policies and procedures based on observed or reported fault |  |  |
| 1. Applies diagnostic tools and skills to identify and repair sources of fault; installs updated equipment or components; or performs preventive maintenance |  |  |
| 1. Confirms power restoration after repairs |  |  |
| 1. Communicates effectively with first responders, dispatchers and members of the public to coordinate activities appropriately |  |  |
| 1. Accurately documents work performed, equipment or parts used and notes deferred maintenance needs |  |  |

Suggested Related Instruction Outline

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| Provider | |
| **Name:** | |
| **Address:** | |
| **Email:** | **Phone Number:** |
| **Suggested Related Instruction Hours:** 144 | |

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| **Course Number** | **Course Title** | **Contact Hours** |
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