



**Appendix A**  
**ON-THE-JOB LEARNING OUTLINE**  
**Fiber Optic Technician**  
**O\*NET-SOC CODE: 49-2021.00      RAPIDS CODE: 2064**

Description	Approximate Hours
<b>Workplace Safety</b> <ul style="list-style-type: none"> <li>● Identify Hazards</li> <li>● Understand workplace safety requirements</li> <li>● Maintain security and emergency procedures</li> </ul>	250
<b>Fiber Optic Installation Safety</b> <ul style="list-style-type: none"> <li>● General Safety including safety while climbing poles or ladders and working with heavy equipment</li> <li>● Eye, Face, Head and Skin Protection</li> <li>● Cleanliness of jobsite</li> <li>● Handling reels of fiber optic cable</li> </ul>	250
<b>Introduction to Fiber Optics</b> <ul style="list-style-type: none"> <li>● Hands-on demonstration and handling of fiber optic components</li> <li>● Site surveys and planning</li> <li>● Cable routing and management</li> </ul>	375
<b>Fiber Optic Cable Installation Basics</b> <ul style="list-style-type: none"> <li>● Paired with an experienced technician for ongoing guidance</li> <li>● Explore safety protocols related to cable installation</li> <li>● Group discussion on practical challenges and solutions</li> <li>● Practice handling fiber optic tools and equipment</li> <li>● Splicing and termination exercises</li> <li>● Cable installation simulations</li> </ul>	375
<b>Fiber Optic Testing and Troubleshooting</b> <ul style="list-style-type: none"> <li>● Interactive work on testing methods and equipment</li> <li>● Introduction to testing equipment</li> <li>● OTDR and power meter operation</li> <li>● Interpretation of test results</li> </ul>	250
<b>Network Configuration and Integration</b> <ul style="list-style-type: none"> <li>● Working with network configuration with fiber optics</li> <li>● Configuration exercise and practices - Set up basic network components</li> <li>● Configuration of switches and routers</li> <li>● Hands-on projects integrating fiber optics into networks</li> <li>● Collaboration with the IT team</li> </ul>	250
<b>Final Projects and Management</b> <ul style="list-style-type: none"> <li>● Work on final projects related to fiber optic installations</li> <li>● Execute a complete fiber optic installation</li> <li>● Document the entire process, including plans, installations, and test results</li> </ul>	250

**TOTAL MINIMUM HOURS 2,000**