# ELWT1110 - Line Worker Theory II

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| Credits: | 4 (2/2/0) |
| Description: | This course provides the study of the principles of alternating current high voltage distribution circuitry. Included in this course are mathematical computation of AC power, conductor application including practice at armor rodding, hand and pre-formed ties, overvoltage and overcurrent installations, and street lighting circuits. |
| Prerequisites: | • ELWT1102 |
| Corequisites: | |
| Pre/Corequisites*: | |
| Competencies: | 1. Compute AC circuit values.<br>2. Compute AC parallel circuit values.<br>3. Compute AC combination circuit values.<br>4. Calculate AC circuit values using electrical formulas.<br>5. Calculate AC power using electrical formulas.<br>6. Install primary line conductor.<br>7. Install secondary line conductor.<br>8. Coordinate and install primary line fusing.<br>9. Install primary conductor preformed tie products.<br>10. Install primary conductor hand ties.<br>11. Identify National Electric Safety Code requirements.<br>12. Install primary system lightning protection. |
| MnTC goal areas: | None |

**Can be taking as a Prerequisite or Corequisite.*

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