**Lesson Information**

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| Lesson: (2 of 5) Boxes Length: 90 minutes  Unit: (2 of 3) System Elements  Course: Electrical |

**Content Assumptions**

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| Prior to this class, students have taken math and construction drawing courses as well as lesson 3, “Services,” of the previous Electrical unit, “Basic Theory and Practice.” |

**Essential Questions**

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| 1. How are different kinds of device, pull, and junction boxes selected and installed? |

**Objectives Assessments**

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| After completing this lesson, students will be able to:   1. Demonstrate their knowledge of how to select and install device, pull, and junction boxes appropriate to given situations. | 1. Materials list and process write-up — rubric |

**Activities/Instruction**

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| **Education by Station Rotation** (60 minutes)  Prior to class, Instructor sets up separate areas of the classroom with examples of different types of boxes (as described in the Materials section), organized by type. Instructor takes students around to each different “station,” describing how each type of box is selected and installed according to electrical load requirements and National Electrical Code® (NEC®) regulations. Students ask questions and take notes.  **Estimation of Box Situations** (30 minutes)  Using their electrical drawings from lesson 3 of the previous unit and copies of the NEC® as necessary, students are to write materials estimates for device, pull, and junction boxes according to what they just learned. Then, students choose one type of box from their drawing and write the installation process for it. |

**Materials**

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| For students:   * Electrical drawings for a simple residence (see lesson 3, “Services,” of the previous Electrical unit, “Basic Theory and Practice” * Copies of the latest edition of the National Electrical Code® (NEC®)   For Instructor:   * Examples of different types of device, pull, and junction boxes * [BOX ESTIMATION AND PROCESS RUBRIC] |