**JADE**Learning

*Power Your Career*

| | |
|---|---|
| **Course Name** | Remote-Control, Signaling, and Power-Limited Conductors |
| **Credit Hours** | 4 Hours |
| **Course Description** | A comprehensive guide to selecting and installing low-voltage conductors addressed in Article 725 of the 2020 NEC. This course introduces the user to the arrangement of the 2020 National Electrical Code and explains the scope of the select Articles addressing low-voltage conductors, the systems and applications where low-voltage conductors are to be used, the limitations of low-voltage conductors, the procedure for properly selecting and installing these conductors and cables, and other NEC requirements pertaining to low-voltage conductors and cables. This course has no prerequisites. |
| **Reference Materials** | NFPA 70 National Electrical Code 2020 Edition |
| **Learning Outcomes** | At the completion of this course, licensees can expect to be able to: |

- Describe the arrangement and scope of the 2020 NEC.
- Explain how the 2020 NEC applies to low-voltage conductors.
- Identify the differences between low-voltage conductors and power and lighting conductors.
- Interpret Table 1, 4, and 5, Chapter 9 to adhere to percentage fill requirements for conductors in a raceway.
- Identify the appropriate low-voltage conductor or cable type for a given application.
- Explain appropriate methods of low-voltage installation.
- Describe the limitations imposed on low-voltage conductors by the 2020 NEC.
- Identify various low-voltage cable markings.
- Describe grounding requirements for low-voltage Class 2 power-distribution suspended ceilings.
- Define electrical theory basic terms such as voltage and current.
- Explain how electrical theory applies to power, lighting, and low-voltage conductors.

**Course Timed Syllabus**         Attached

**Method of Presentation**        This online course uses text and graphics. Multiple choice
                                  questions are used to test how well the student understands
                                  the material. Each answer choice has a response which tells
                                  the student whether the selected answer is correct or not. A
                                  running score is displayed so each person can track their
                                  progress through the class. The learning event is
                                  asynchronous and formatted as a visual lecture.

**Attendance Verification**       This course uses personal identification questions to verify
                                  attendance. A set of five simple personal ID questions are
                                  asked of a licensee before they start a course and then
                                  again, randomly, throughout the course (at least one
                                  question is asked every 30 minutes). All questions have
                                  four preset answer choices. The licensee must answer in the
                                  same way as they did at the start of the course to be able to
                                  continue training.

                                  This course employs an inactivity timer, which will
                                  automatically log a licensee out of the training if the system
                                  does not sense a mouse click within 30 minutes. At the end
                                  of the course, the licensee must affirm their name, that they
                                  are the one who completed the course, and verify that their
                                  registration information is correct.

**Method of Assessment**          The licensee must complete all 50 multiple choice
                                  questions with a score of at least 75% in order to get credit
                                  for the course. Question choices are randomized, so each
                                  participant will have a unique testing experience. The
                                  course is also timed; participants will not get credit until
                                  they spend at least 200 active minutes in the course. Lastly,
                                  this course is set up to allow users to go back through the
                                  section questions and re-answer questions while they meet
                                  the time requirement.

**Schedule and Location**         This course may be taken at any time at
                                  www.JadeLearning.com. The student may sign in and out
                                  of the course as many times as needed to complete the
                                  course.

**Online Review Access**

To review this course, go to www.JadeLearning.com. Click on the orange Login button on the top right and sign into the learning system using the login information below.

Username: UTEtester
Password: UTEtester

**Cost**

$55.00

**Instructor(s)**

Jerry Durham