

VIDEO USER GUIDE

2017 Limited Energy & Communications Systems Video Library

Total Play Time: [16:12:40]



The best way to understand the concepts in this program is to use the videos along with the textbook. The videos contain explanations and commentary from a panel of experts that expand on the concepts in the textbook and help you understand the application of the topics in real-world situations. Whether you're a visual or an auditory learner, watching these videos will enhance your knowledge and understanding.

- Watch the videos sequentially and follow along with the textbook. Stop and review any section that you don't understand.
- Pay special attention to the detailed instructional graphics.
- Work through the questions in your textbook to test your comprehension.

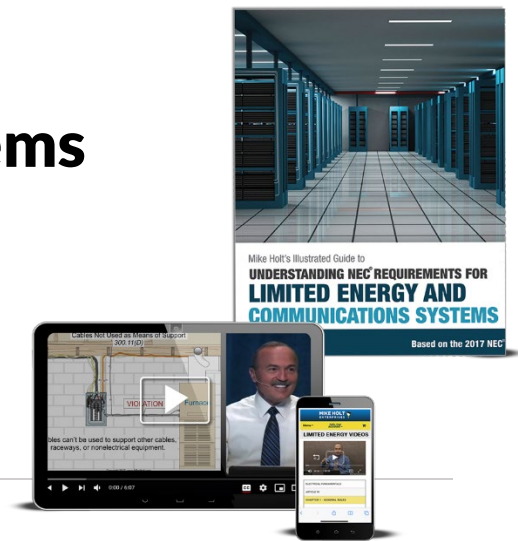


Limited Energy and Communications Systems

Based on the 2017 NEC®

VIDEO USER GUIDE

Play Time Total 3:18:19



Play Time

Book Page

CHAPTER 7 – SPECIAL CONDITIONS..... [1:48:49] page 69

Article 725 – Remote-Control, Signaling and Power

Limited Circuits..... [0:51:20]

Article 760 – Fire Alarm Systems..... [0:35:59]

Article 770 – Optical Fiber Cables and Raceways [0:21:30]

CHAPTER 8—COMMUNICATIONS CIRCUITS [1:29:30] page 117

Article 800 – Communications Circuits..... [0:38:26]

Article 810 – Radio and Television Equipment [0:33:58]

Article 820 – CATV (Coaxial) [0:17:06]

Basic Electrical Theory

VIDEO USER GUIDE

Play Time Total 12:54:21



	<u>Play Time</u>	<u>Book Page #</u>
Introduction	[0:10:44]	
CHAPTER 1 – ELECTRICAL FUNDAMENTALS	[2:56:19]	page 1
Unit 1 - Matter	[0:36:48]	
Unit 2 - Electron Theory	[0:08:17]	
Unit 3 - Magnetism	[0:19:57]	
Unit 4 - Electricity	[0:56:07]	
Unit 5 - Electromagnetism	[0:05:44]	
Unit 6 - Uses of Electromagnetism	[0:49:26]	
CHAPTER 2 – BASIC ELECTRICITY	[1:17:25]	page 73
Unit 7 - The Electrical Circuit	[0:20:45]	
Unit 8 - Math	[0:25:21]	
Unit 9 - Electrical Formulas	[0:31:19]	
CHAPTER 3 – BASIC ELECTRICAL CIRCUITS	[2:03:39]	page 121
Unit 10 - Series Circuits	[0:40:55]	
Unit 11 - Parallel Circuits	[0:29:22]	
Unit 12 - Series-Parallel Circuits	[0:10:00]	
Unit 13 - Multiwire Circuits	[0:43:22]	
CHAPTER 4 – ELECTRICAL SYSTEMS AND PROTECTION	[2:09:37]	page 171
Unit 14 - The Electrical System	[0:51:10]	
Unit 15 - Protection Devices	[1:18:27]	
CHAPTER 5 – ALTERNATING CURRENT	[2:19:37]	page 209
Unit 16 - Alternating Current	[0:44:05]	
Unit 17 - Capacitance	[0:24:35]	
Unit 18 - Induction	[0:27:37]	
Unit 19 - Power Factor & Efficiency	[0:33:20]	
CHAPTER 6 – MOTORS, GENERATORS & TRANSFORMERS	[1:57:00]	page 265
Unit 20 - Motors	[0:31:48]	
Unit 21 - Generators	[0:04:17]	
Unit 22 - Transformers	[1:20:55]	