

2014 NEC® Electrical Engineer Library

58 hours & 51 minutes

UNDERSTANDING THE NEC VOLUME 1

General Requirements—Article 90 - 110 4 h 17m

Introduction / Dedication (Play All)
Article 90—Introduction to the NEC[0:43:47]
Chapter 1—General[3:21:13]

Wiring & Protection—Article 200 - 285 4h 28m

Introduction / Dedication (Play All)
Chapter 2—Wiring & Protection[4:28:05]

Wiring Methods & Materials—Article 300 - 314 7h 31m

Introduction / Dedication (Play All)
Part 1 of 2[2:33:00]
Chapter 3—Wiring Methods & Materials[4:04:15]
Part 2 of 2[4:24:00]
Chapter 3—Wiring Methods & Materials cont'd from Disc 1[3:27:06]

Grounding vs. Bonding—Article 250 6h 57m

Part 1 of 2[2:33:00]
Introduction / Dedication (Play All)
Scope of this Program
Electrical Fundamentals[1:13:20]
Article 90—Introduction to the NEC[0:03:28]
Chapter 1—General[0:30:39]
Chapter 2—Wiring and Protection[2:33:15]
Part 2 of 2[4:24:00]
Introduction (Play All)
Scope of this Program
Chapter 2 - Wiring and Protection [continued from Disc 1][2:53:42]
Chapter 3—Wiring Methods and Materials[0:05:30]
Chapter 4—Equipment for General Use[0:13:24]
Chapter 5—Special Occupancies[0:14:11]
Chapter 6—Special Equipment[0:44:20]
Chapter 8—Communications Systems[0:05:34]

Equipment for General Use—Article 400 - 450 4h 30m

Introduction / Dedication (Play All)
Chapter 4—Equipment for General Use[4:23:04]

UNDERSTANDING THE NEC VOLUME 2

Special Occupancies—Article 500 - 590 3h 47m

Introduction / Dedication (Play All)
Chapter 5—Special Occupancies[3:44:02]
Bonus Material
Article 547—Agricultural Buildings, and Stray Voltage[1:34:20]

Special Equipment—Article 600 - 702 4h 7m

Introduction / Dedication (Play All)
Chapter 6—Special Equipment[3:02:31]
Chapter 7—Special Conditions[1:01:02]

Limited Energy & Communications Systems Article 725 - 820 3h 25m

Introduction / Dedication (Play All)
Chapter 7—Special Conditions[2:11:33]
Chapter 8—Communications Systems[1:09:37]

CALCULATIONS DVDs

Raceway & Box Calculations—Unit 5 2h 57m

Introduction / Why are NEC Calculations Important? (Play All)
Part A—Raceway Sizing[1:34:40]
Part B—Outlet Box Sizing[0:38:39]
Part C—Pull Boxes, Junction Boxes, and Conduit Bodies[0:37:25]
Bonus Material
How to Prepare for an Electrical Exam[0:15:14]

Conductor Sizing & Protection Calc—Unit 6 3h 18m

Introduction / Why are NEC Calculations Important? (Play All)
Part A - Conductor Resistance Calculations[0:58:21]
Part B - Voltage Drop Considerations[1:13:47]
Bonus Material
Sizing Conductor Where the Loads are at Different Distances..[0:33:32]
How to Prepare for an Electrical Exam[0:15:14]

Voltage-Drop Calculations—Unit 7 2h 18m

Introduction / Why are NEC Calculations Important? (Play All)
Part A—Conductor Requirements[1:04:20]
Part B—Conductor Ampacity[2:07:08]
Bonus Material
How to Prepare for an Electrical Exam[0:15:14]

Motor & Air-Conditioning Calculations—Unit 8 3h 43m

Introduction / Why are NEC Calculations Important? (Play All)
Part A - Motor Calculations[3:10:08]
Part B - Air-Conditioning Calculations[0:26:43]
Bonus Material
How to Prepare for an Electrical Exam[0:15:14]

Dwelling Unit Calculations—Unit 9 2h 1m

Introduction / Dedication (Play All)
Part A—Standard Method Load Calculations[1:20:20]
Part B—Optional Method Load Calculations[0:18:37]
Part C—Neutral Load Calculations[0:20:50]
Bonus Material
Generator Sizing[0:12:38]
Determining Number of Branch Circuits[0:04:32]

Multifamily Dwelling Calculations—Unit 10 1h 52m

Introduction / Dedication (Play All)
Part A—Standard Method Load Calculations[1:09:21]
Part B—Optional Method Load Calculations[0:28:20]
Part C—Neutral Load Calculations[0:14:18]

Commercial Load Calculations—Unit 11 1h 53m

Introduction / Dedication (Play All)
Part A—General[0:43:06]
Part B—Examples[0:50:36]
Part C—Optional Load Calculations[0:18:10]
Bonus Material
Number of Receptacles on a Circuit Other Than Dwelling Units.....[0:03:11]

Transformer Calculations—Unit 12 1h 47m

Introduction / Dedication (Play All)
Part A—General[1:04:06]
Part B—NEC Requirements[0:42:04]
Bonus Material
Grounded vs. Ungrounded System[0:35:26]

