

TABLE OF CONTENTS

| | |
|--|------|
| About This Workbook | vii |
| Additional Products to Help You Learn | viii |
| How to Use the <i>National Electrical Code</i> | 1 |
| Article 90—Introduction to the <i>National Electrical Code</i> | 7 |
| CHAPTER 1—GENERAL RULES | 11 |
| Article 100—Definitions | 13 |
| Article 110—Requirements for Electrical Installations | 29 |
| CHAPTER 2—WIRING AND PROTECTION | 39 |
| Article 200—Use and Identification of Grounded Conductors | 41 |
| Article 210—Branch Circuits | 45 |
| Article 215—Feeders | 57 |
| Article 220—Branch-Circuit, Feeder, and Service Load Calculations | 59 |
| Article 225—Outside Branch Circuits and Feeders | 65 |
| Article 230—Services | 69 |
| Article 240—Overcurrent Protection | 77 |
| Article 242—Overvoltage Protection | 83 |
| Article 250—Grounding and Bonding | 87 |
| CHAPTER 3—WIRING METHODS AND MATERIALS | 109 |
| Article 300—General Requirements for Wiring Methods and Materials | 113 |
| Article 310—Conductors for General Wiring | 123 |
| Article 312—Cabinets | 127 |
| Article 314—Outlet, Pull, and Junction Boxes; Conduit Bodies; and Handhole Enclosures | 129 |
| Article 320—Armored Cable (Type AC) | 137 |
| Article 330—Metal-Clad Cable (Type MC) | 139 |
| Article 334—Nonmetallic-Sheathed Cable (Type NM) | 141 |
| Article 336—Power and Control Tray Cable (Type TC) | 145 |
| Article 338—Service-Entrance Cable (Types SE and USE) | 147 |
| Article 340—Underground Feeder and Branch-Circuit Cable (Type UF) | 149 |
| Article 342—Intermediate Metal Conduit (Type IMC) | 151 |
| Article 344—Rigid Metal Conduit (Type RMC) | 153 |
| Article 348—Flexible Metal Conduit (Type FMC) | 155 |
| Article 350—Liquidtight Flexible Metal Conduit (Type LFMC) | 157 |
| Article 352—Rigid Polyvinyl Chloride Conduit (Type PVC) | 159 |
| Article 356—Liquidtight Flexible Nonmetallic Conduit (Type LFNC) | 161 |
| Article 358—Electrical Metallic Tubing (Type EMT) | 163 |

| | |
|--|-----|
| Article 362—Electrical Nonmetallic Tubing (Type ENT)..... | 165 |
| Article 376—Metal Wireways..... | 167 |
| Article 380—Multioutlet Assemblies..... | 169 |
| Article 386—Surface Metal Raceways..... | 171 |
| Article 392—Cable Trays..... | 173 |
| CHAPTER 4—EQUIPMENT FOR GENERAL USE..... | 175 |
| Article 400—Flexible Cords and Flexible Cables..... | 177 |
| Article 402—Fixture Wires..... | 179 |
| Article 404—Switches..... | 181 |
| Article 406—Receptacles, Attachment Plugs, and Cord Connectors..... | 185 |
| Article 408—Switchboards and Panelboards..... | 191 |
| Article 410—Luminaires, Lampholders, and Lamps..... | 195 |
| Article 411—Low-Voltage Lighting..... | 201 |
| Article 422—Appliances..... | 203 |
| Article 424—Fixed Electric Space-Heating Equipment..... | 207 |
| Article 430—Motors, Motor Circuits, and Controllers..... | 209 |
| Article 440—Air-Conditioning and Refrigeration Equipment..... | 213 |
| Article 445—Generators..... | 215 |
| Article 450—Transformers..... | 217 |
| Article 480—Storage Batteries..... | 219 |
| Final Exam A—Straight Order..... | 223 |
| Final Exam B—Random Order..... | 233 |
| About the Author..... | 243 |
| About the Illustrator..... | 244 |
| About the Mike Holt Team..... | 245 |