

WIRING PRACTICES PANEL



Teach basic wiring with this simple and easy to use electrical wiring panel. This 24" x 20" x 5" panel comes complete with all materials needed to teach the most up-to-date wiring skills and principles. Complete wiring diagrams for six basic exercises: a switch and lamp, three- and four-way switches, receptacles, switched receptacles, and split-wired receptacles are included with the panel. Many other exercises could be completed with the panel.

Wiring Practices Panel: The Panel includes: modern safety switch, 15 amp circuit breaker; switch boxes; octagon box; grounded duplex receptacles; lampholder; SPST switches; 3-way switches; 4-way switches; cover plates; box connectors; grounded plug cap; wire nut connectors; grounding clips; 5' of 14-3 type SJ cable; 5' of 14-3/w ground type NM romex, and 10' of 14-2/w ground type NM romex. Order Number: EWP-1\$148.00

Unassembled Panel Components: The same electrical components as above. You furnish lumber, screws, nails, glue, and labor. Order Number: EWP-2\$122.00

Electrical Tool Kit #ETK-76 has all tools necessary to complete wiring exercises.

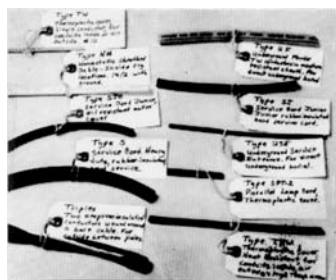
ELECTRICAL FUSE SAMPLE KIT



This kit contains 7 common fuses and circuit breakers. Each item has an attached information card to explain type and common use. Types included: fusetron, fustat and adapter, cartridge, regular buss fuse, and circuit breaker.

Order Number: FUSE-1\$44.50

ELECTRICAL WIRE SAMPLE KIT



This kit contains 11 common conductor and power cord types. Each type consists of a piece of the conductor with type information on covering plus a printed attached tag to explain type and give most common use. Types included: NM, TW, UF, USE, THW, SE, S, SJ, SJO, SP, and Triplex. Packaged in a storage box.

Order Number: WIRE-1\$29.95



PLUMBING & ELECTRICAL

Step through the fundamental principles and techniques to help you understand the plumbing and electrical systems in your home. This video details the tools, materials, and basic steps necessary to help you undertake basic plumbing and electrical jobs with confidence. 87 minutes. HT

DVD Order Number: H-6311\$14.95

ELECTRICAL TOOL KIT



This electrical tool kit is a must for completing basic electrical wiring practices. One set is recommended for each wiring panel in the electrical wiring unit. The set includes: an electrical tester, wire strippers, cable ripper, linemen's pliers, diagonal pliers, long chain nose pliers, and two screw drivers, 3" x 3/16" blade and 4" x 5/16" blade. The tools come complete in a plastic tool box with tray for storage of wire nuts, ground- ing clips, and other small wiring materials.

Order the series and save!

Order Number: ETK-76.....\$99.95 kit

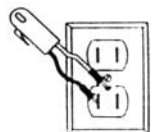


Electrical Tester – 80-500 Volts-ACDC
Order Number: 61-503\$5.75



Wire Strippers –10–18 gauge wire
Order Number: 45-120\$18.95

Cable Ripper – Cap. 5/8" cable
Order Number: 45-118\$6.75



Linemen's Pliers – 7" cushion grip
Order Number: LP-7\$29.95

Diagonal Cutter – 6" cushion grip
Order Number: DC-6\$22.00

Long Chain Nose Pliers – 6" cutters & cushion grip
Order Number: LCNP-6.....\$26.50

Screwdriver – 3" x 3/16" blade, plastic grip
Order Number: ESD-3\$7.50

Screwdriver – 4" x 5/16" blade, plastic grip
Order Number: ESD-4\$8.50

BASIC SOLAR KIT



This simple kit will help to demonstrate the conversion of solar energy to electric power. Kit includes a 400mA solar cell, leads, motor, propeller, and instructions. HUBBARD SCIENTIFIC

Order Number: 4741\$22.75

COMPREHENSIVE SOLAR ELECTRICITY KIT



This redesigned kit now includes: a full function digital multi-meter, 2 large solar cells, LED lamp, buzzer, DC motor, propeller, patch cords, and a new comprehensive lesson plan with 8 unique lab exercises to expand the student's knowledge of the measurement and application of solar power. HUBBARD SCIENTIFIC

Order Number: 4740\$207.25



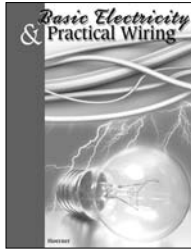
ELECTRICAL

How to add to your existing wiring. Simple switch, 3-way switch, switched receptacle. Identify and select correct cable. Drill studs and ceiling joists for wiring. Plan, rough-in, and complete final hookup of new circuits. Install a ground fault interrupter receptacle. Wire and install various kitchen appliances. Understand the panel box. 69 minutes. HT

VHS Order Number: H-4008\$14.95

BASIC ELECTRICITY & PRACTICAL WIRING

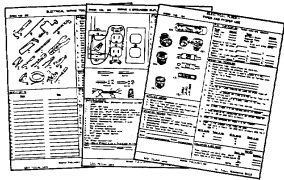
This manual contains more than 100 illustrations and covers circuits, measuring electric power and costs, switching, grounding for safety, wire and current protection, transmission and distribution of electricity, and the service entrance. Considerable emphasis on safety including the use of the GFCI. Written by a teacher educator with over 30 years of teaching experience in high school and college. Each unit includes classroom and laboratory exercises. Numerous demonstrations for the teacher are included. Practical wiring exercises and proper use of electrical tools for Hobar's electrical panel, tools, and demonstration kit are covered. HOBAR



Student Manual: 96 pages, 2007, softcover
 Order Number: 2377\$10.50 each, \$8.40 (10 or more)

Instructor's Manual: Provides demonstration ideas and procedures, and answers.
 Order Number: 3177\$3.95

BASIC ELECTRICITY WORKSHEETS



This set of twenty individual worksheet masters was developed to be used with Hobar's manual #2377, *Basic Electricity & Practical Wiring*. Each worksheet includes Part ID, Procedures, Materials Needed, Skills Taught, and Evaluation, and can be duplicated for student use. HOBAR

- Electrical Fuses—Types and Proper Use
- Types of Electrical Cable
- Connecting a Voltmeter
- Connecting an Ammeter
- Connecting a Wattmeter
- Reading the Kilowatt Hour Meter
- Computing an Electric Bill
- Making a Solderless Connection
- Wiring a Dead Front Plug
- Wiring a Grounded Duplex Receptacle
- Ground Fault Circuit Interrupter
- Making a Solder Connection
- Extension Cord Using Fused Grounded Receptacle
- Portable Extension Cord
- Electric Wiring Tools
- Wire Size and Amps
- Voltage Drop
- Series and Parallel Circuits
- Wiring a Lamp and Switch
- Wiring a Three Way Switch

Set of Twenty Basic Electricity Worksheets:
 Order Number: 899\$18.90

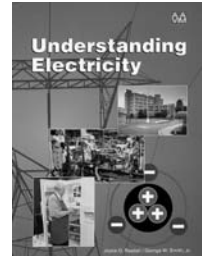
AGRICULTURAL WIRING HANDBOOK, 14E

Over 26 different types of farm buildings are discussed in the book. Simple wiring plans are provided for dairy barns, swine facilities, grain bins, farm shops, poultry barns and other farm structures. Recommendations are also provided for the farm home, ground-fault and arc-fault interrupters, phase converters, standby generators, and lighting requirements. contains an explanation of 4-wire services, and their use in reducing stray voltage. Other sections cover motor circuits, grounding, and Code-mandated equipotential planes for livestock buildings. NFEC

120 pages, 2006, softcover
 Order Number: NFEC07\$21.95 each, \$19.76 (10 or more)

UNDERSTANDING ELECTRICITY

This fully illustrated text provides you with fundamental information needed to understand electricity. Emphasis is placed on safety, convenience safety and design issues as well as emerging technology and trends, which contribute to quality of life of consumers in the home, school, workplace, and community. Packed with easy to understand illustrations and helpful tables. AAVIM



Text: 90 pages, 1998, softcover
 Order Number: 303P\$15.95 each, \$14.36 (10 or more)

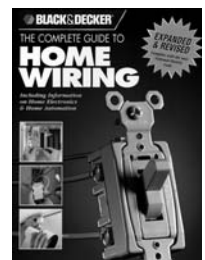
Student Workbook:
 Order Number: 303W\$8.95

Teacher's Answer Key:
 Order Number: 303TK\$9.95

CD-ROM Test Bank: Includes printable and self-scoring tests in both ExamView and Microsoft Word formats. For Windows and Mac.
 Order Number: 303CD\$35.00

THE COMPLETE GUIDE TO HOME WIRING

This book has detailed information on repairing and replacing receptacles, fixtures, and all types of switches along with complete directions for all major circuit and appliance installations. It has complete, up-to-date code and safety information, including photos of common safety issues and a convenient reference chart. Thirty-one detailed color circuit maps and a section on home automation and networking are also included. B&D



334 pages, 2005, softcover
 Order Number: CPI2136\$24.95

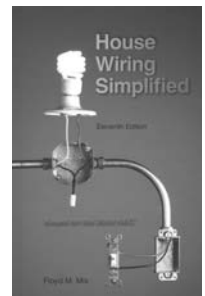
ELECTRICAL TOOLS, SAFETY & WIRING DVD

This DVD discusses proper grounding of tools and equipment, the purpose of over-current protective devices and the purpose and care of insulation on electric power cords. Correct usage of the tools and following safe and approved working procedures are emphasized. Proper electrical identification is also a focus. Using an electrical demonstration board, students are shown how to wire three circuits commonly found in most residences – a duplex receptacle, a lighting fixture controlled by a dimmer switch and a three-way lighting circuit. 250 minutes, 4 sections, 9 printable resources and 8 Web resources. CEV

DVD Order Number: CEV80858D\$195.00

HOUSE WIRING SIMPLIFIED, 11E

House Wiring Simplified presents the fundamentals of modern house wiring, with clear text and easy-to-follow drawings. Based on the 2008 National Electrical Code®. Color-coded diagrams aid in understanding various types of circuits.



Text: 197 pages, 2009, hardcover
 Order Number: 902-3\$30.00 each,
 \$24.00 (10 or more)



TOOLS OF THE TRADE INSIDE THE ELECTRICIAN'S TOOLBOX

After a general introduction of electricity – electrons, current, kilowatts, and the journey of electrical power from utility company to home – this program examines the work materials and tools commonly used by an electrician. Wires, cables, conduits, boxes, receptacles, and switches are illustrated, and the tools required to cut and run cable or conduit, detect and test voltage, and wire or connect fixtures are shown in action. Wiring diagrams and blueprints are also considered, and safety is stressed throughout. Correlates to all National CTE Organizational Standards (including the provisions of the Perkins Act). A viewable/printable instructor's guide is available online. 26 minutes, 2008. SHOPWARE

Order Number: SW37520-D.....\$89.95



SAFE ELECTRICAL WIRING TECHNIQUES

Developed by the National Food & Energy Council

Learn how to assemble the most common types of electrical circuits. Dozens of interactive exercises with colorful graphics take you from basic concepts, all the way to point-and-click assembly of lighting circuits, receptacles, and service panels. Includes both the CD, and a copy of the *Agricultural Wiring Handbook*. For Windows & Mac. NFECE

Order Number: FEC-CD.....\$115.00



ELECTRICAL SAFETY

Gives a basic explanation of electricity, what it is, and how it affects us. Also covered is the color coding of wire and what each color means, the role of circuits and circuit breakers, and fuses and how to replace them. The program then examines insulation and how it works, the various hand tools used in electrical work, and what gauge wire to use in certain applications. The video also covers preventing electrical shock and how to treat a person who has received an electrical shock. 30 minutes, 1995. CAMBRIDGE

DVD Order Number: CCP14463-D.....\$79.95



ELECTRICAL SAFETY

This CD-ROM provides students with a general understanding of the basic principles of electricity and shows them how to work safely around electrical equipment. Key topics include shock, electrical hazards, and emergencies. A handy reference section can be accessed at anytime containing key points, glossary, and applicable OSHA regulations. A comprehensive, interactive post-test allows students to individually check their work. 2002. SHOPWARE

Windows CD-ROM:

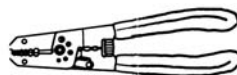
Order Number: SW30117.....\$99.95

RECEPTACLE CIRCUIT TESTER



This handy tester will quickly tell if a circuit is correctly wired. Plug into any 120 volt outlet and identify: polarity reversed, ground incomplete, wires disconnected, and numerous other faults in electrical circuits. An excellent tool for use when making an electrical safety inspection and for electrical instructional units.

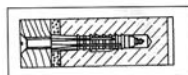
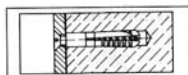
Order Number: 61-035.....\$29.00



WIRING TOOL

6–18 gauge wire.

Order Number: 18-800.....\$42.95



“RED-CAP” ANCHOR KIT

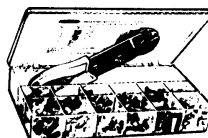
(100) 10 x 1” screws and 1/4” drill.

Order Number: 51-212.....\$14.95

SOLDERLESS TERMINAL KIT

Includes insulated crimping tool and plastic storage box.

Order Number: G-4X258.....\$74.50



CLAMP-ON METER

This easy-to-use clamp-on tester quickly and accurately determines amperage, voltage, and ohms.

- Measures up to 400AAC
- Non-contact voltage (70V-600VAC)
- Tapered jaws with hook tip
- Auto/manual ranging
- Data hold
- Auto power off
- Low battery indicator
- Includes leads and case

Order Number: 61-732.....\$145.00



PLASTIC WIRE CONNECTORS

Orange Connectors – 14-18 gauge wire, package of 50.

Order Number: 10-103.....\$5.35

Yellow Connectors – 12-18 gauge wire, package 50.

Order Number: 10-104.....\$6.95

Red Connectors – 10-16 gauge wire, package of 50.

Order Number: 10-106.....\$9.95

Green Connectors – Grounding wire, package of 50.

Order Number: 11-200.....\$5.13



“G-2” GROUNDING CLIP

G-2, numbers 12-14 gauge wires, package of 100.

Order Number: 11-002.....\$25.00



DEAD FRONT PLUG

This OSHA and UL approved plug should be used on all electrical power cords. 3-prong grounded style.

Order Number: H-5266N.....\$13.00





NATIONAL ELECTRICAL CODE 2008

The world's most widely adopted safety code, the National Electrical Code® (NEC) is now advancing electrical safety requirements with the 2008 edition in an effort to maximize public safety, emergency preparation, and electrical worker protection. With regulations for electrical wiring and equipment in virtually all types of buildings, this new edition responds to industry needs with expanded requirements based on research, new technologies, and recent events. A must-have for anyone involved in electrical design, installation, inspection, and safety, this edition has been updated for enhanced usability in the field, making it ideal for handling on-the-job electrical situations safely and effectively. NFPA/DELMAR

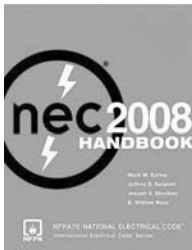


Manual: 840 pages, 2009, softcover
Order Number: 5790-3.....\$75.00

CD-ROM: Offers all of the information from the manual with new, refined searching capabilities for more precise results, and offers users the ability to print, bookmark, or export text or graphics at the touch of a button.
Order Number: 5794-1.....\$117.50

NATIONAL ELECTRICAL CODE 2008 HANDBOOK

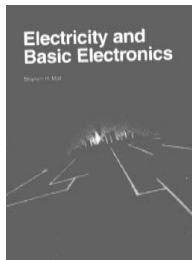
Get the expert support needed to comply efficiently, avoid violations, and keep electrical installations on track with the National Electrical Code® in this exclusive NEC® 2008 Handbook from the National Fire Protection Association (NFPA). Only the handbook offers the full NEC® 2008 text alongside expert commentary from code specialists, offering insight into code rationale, explanations of new and revised rules, and practical, hands-on advice on how to apply the code. A valuable resource for anyone involved in electrical design, installation, inspection, and safety, this book will give users the knowledge needed to feel confident that their work will be safe, efficient, and code-compliant. NFPA/DELMAR



Manual: 1,500 pages, 2008, hardcover
Order Number: 5793-4.....\$135.00

ELECTRICITY AND BASIC ELECTRONICS

Designed to reflect the ever-expanding interest in electricity and electronics, this popular introductory text teaches basic theory and fundamentals. This text is clearly written and highly illustrated, making it easy for beginning students to understand as they begin preparing for careers in electronics. Activities and projects provide real-world applications in home and industry. GOODHEART-WILLCOX



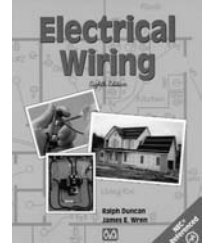
Text: 368 pages, 720 illustrations, 1998, hardcover
Order Number: 406-5.....\$53.28 each, \$42.63 (10 or more)

Workbook: Provides additional questions and activities to help students learn important concepts covered.
Order Number: 407-3.....\$14.00 each, \$11.20 (10 or more)

Instructor's Guide: Contains answers to text and workbook questions.
Order Number: 408-1.....\$12.00

ELECTRICAL WIRING, 9E

This edition of AAVIM's publication includes virtually every basic skill and task a student will need for a complete residential wiring program. This fully illustrated text includes literally hundreds of easy to understand illustrations and almost 200 photographs. Clear, instructive tables complement the text and step-by-step procedures. Where applicable, the text is referenced to the NEC. AAVIM



Text: 262 pages, 2008, softcover
Order Number: 305.....\$39.95 each, \$35.96 (10 or more)

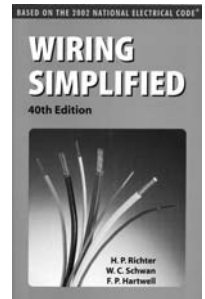
Teacher Guide: 144 pages, 2008, softcover
Order Number: 305TG.....\$21.95

Student Workbook: 144 pages, 2008, softcover
Order Number: 305SW.....\$14.95 each, \$13.46 (10 or more)

CD-ROM Test Bank: Includes printable and self-scoring tests in both ExamView and Microsoft Word formats. For Windows.
Order Number: 305CD.....\$50.00

WIRING SIMPLIFIED, 40E

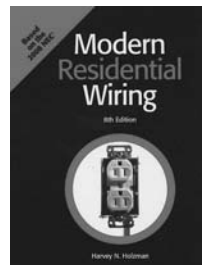
This book translates NEC rules into easy-to-understand explanations of how to do complete, safe wiring installations. Information on the latest developments in arc-fault circuit interrupters, feeders and the panels they supply, safe installation of emergency backup generators, required workspace around electrical panels, motor disconnects, underground-to-aboveground wiring transitions, household computer network wiring, and coping with existing aluminum branch circuit wiring. Based on the 2002 National Electric Code (NEC). PARK PUBLISHING



243 pages, 2002, softcover
Order Number: IND2948.....\$6.95 each, \$5.56 (10 or more)

MODERN RESIDENTIAL WIRING, 8E

This text provides essential information about the tools, materials, equipment, and processes encountered in the electrical trade. This comprehensive textbook includes the latest information on installation and repair techniques, as well as recent developments in wiring systems, personal protection equipment, and computer wiring. References to the 2008 National Electrical Code® are made throughout this text to reinforce the importance of installing residential wiring in a safe and professional manner. GOODHEART-WILLCOX



Text: 360 pages, 2008, hardcover
Order Number: 895-8.....\$60.00 each, \$48.00 (10 or more)

Workbook: 116 pages, Includes additional problems and questions to reinforce and enrich material in the text.
Order Number: 896-5.....\$16.00 each, \$12.80 (10 or more)

Instructor's Guide: Provides answers to text and workbook questions.
Order Number: 897-2.....\$60.00

Instructor's Resource CD-ROM: Provides instant access to useful instructional resources, ready to print, as you need them. Reproducible masters are presented in PowerPoint format for easy classroom use. Related Web links allow you to immediately connect to numerous online resources. Also included are lesson plans that you can quickly customize to make daily lesson planning easy.
Order Number: 898-9.....\$200.00

**GROUNDING**

What needs to be grounded in a house, and how is it done? That's what this video explains as it demonstrates how to install a low-resistance panel-to-earth grounding system. Other surge and lighting protection devices are also discussed, and tips on testing systems for functionality and safety are included. 20 minutes, 2005. SHOPWARE

DVD Order Number: SW32073-D\$89.95

**WIRING METHODS**

This video covers the general installation of electrical conduits and wires and aspects of wiring particular to new construction and older homes. Pulling cable on a construction site and setting up a structured wiring system are emphasized. Tips on how to make sense of older wiring methods are also included, as well as approaches to routing wires on rehab and renovation jobs. 20 minutes, 2005. SHOPWARE

DVD Order Number: SW32072-D\$89.95

**ELECTRICAL COMPONENTS:
PART I**

Fixed resistors, variable resistors, ballast resistors, batteries, and various types of switches are explained in this program. Computer animation, component cutaways, and lab experiments are used to demonstrate how these basic components function. It is ideal for classes in electricity—electronics, technology, auto mechanics, and other technical areas. 20 minutes, 1995. MERIDIAN

DVD Order Number: ME25277-D\$79.95

**ELECTRICAL COMPONENTS:
PART II**

Capacitors, fuses, fuse links, circuit breakers, flashers, coils, and other devices are discussed in this training tape. Computer animation, component cutaways, and lab experiments are used to demonstrate how these basic components are constructed and how they operate. 22 minutes, 1995. MERIDIAN

DVD Order Number: ME25276-D\$79.95

**ELECTRICAL COMPONENTS:
PART III**

Transformers, relays, and motors are detailed in this training video. Computer animation, component cutaways, and lab experiments are used to demonstrate how these basic components are constructed and operate. An essential video training program for students of electricity—electronics, technology, auto mechanics, and other technical subject areas that involve electricity and electronics. 24 minutes, 1995. MERIDIAN

DVD Order Number: ME25278-D\$79.95

**ELECTRICAL TOOL:
SAFETY & WIRING****ELECTRICAL MATERIALS IDENTIFICATION I**

Proper electrical material identification, terminology, and usage is the focus of this video presentation. This tape includes over 15 different wiring conductors that are shown and described. Several methods of attaching wires together (utilizing wire nuts, solderless connectors, and split bolt connectors) are demonstrated. Also included is a discussion on the most commonly used type of conduit (EMT, rigid, PVC, flexible metal, and liquid-tight) and the variety of connectors and fittings used for each. 47 minutes. CEV

ELECTRICAL MATERIALS IDENTIFICATION II

This video provides further identification, terminology, and usage of many of the most common electrical materials used in the industry today. Featured in this tape are a variety of electrical boxes (steel and PVC) and switches and receptacles along with their appropriate cover plates, fuses, disconnect box, breaker panel box, meter can, weatherhead, ground rod and clamp, and several types of lighting fixtures. 50 minutes. CEV

ELECTRICAL SAFETY

Featuring basic electrical safety procedures, this video covers: proper grounding tools and equipment; purpose of over-current protective devices (fuses and circuit breakers); purpose and care of insulation on conductors (like on outdoor-use electrical cords). A general explanation of electrical shock, factors that affect the severity of electrical shock, special electrical protective devices, common sense practices to employ to avoid electrical shock, and how to handle electric shock emergencies are also provided. Study Guide included. 33 minutes, 1991. CEV

RESIDENTIAL ELECTRICAL WIRING SKILLS

Knowledge of the basic skills required for residential electrical wiring is essential before attempting any wiring procedure. By utilizing an electrical demonstration board, this video will provide students with the skills required for wiring three circuits commonly found in most residential applications—a duplex receptacle, a lighting fixture controlled by a dimmer switch, and a three-way lighting circuit. The correct procedure for wiring these circuits to a breaker panel box is also shown and all circuits are then tested for proper operation. 60 minutes. CEV

ELECTRICAL TOOLS IDENTIFICATION

The identification of the most common tools required to perform work in the field of electricity is the focus of this video. A wide variety of tools are identified and a brief discussion of the use of each tool is provided for the following: pliers, screwdrivers, drills and bits, saws, conduit tools, test instruments, and several other miscellaneous tools. 45 minutes. CEV

Order the series and save!

DVD: 250 minutes, 5 sections, 9 printable resources, and 8 web resources

Order Number: CEV80858\$195.00

ELECTRIC MOTORS

Principles, Controls, Service and Maintenance

This text was written for the high school or vocational school student by two teacher educators with over 50 years of combined Ag Mechanics teaching experience. Fourteen commercial companies contributed technical expertise and materials for the manual. This manual includes over 200 illustrations and tables plus 40 classroom and laboratory exercises. Each chapter includes definition of terms, and a 15-page appendix supplements the subject matter. Content includes History, Features, Nameplate Information, Production of Electric Energy, Classification and Operation, Changing Voltage, Reversing, Performance Testing, Motor Controls, Maintenance, & Trouble Shooting. A must for your electric motor instructional program. HOBAR

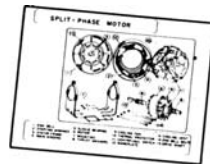


Text: 190 pages, 1990, softcover
 Order Number: 183.....\$18.95 each, \$15.16 (10 or more)

Instructor's Manual: 44 pages. Includes answers to classroom exercises; lists of visuals, teaching tools, and equipment available; hints on units to include for specific courses; and plans for constructing experimental motors. HOBAR
 Order Number: 283\$5.35

**ELECTRIC MOTORS
 TRANSPARENCY MASTERS**

A set of 88 transparency masters to supplement and to be used with Hobar manual *Electric Motors*. These quality masters will help teach this important unit and greatly add to any electric motor instructional program. HOBAR

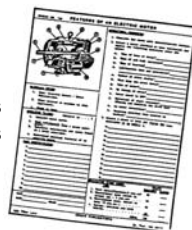


Order Number: 183TM.....\$15.25

ELECTRIC MOTORS WORKSHEETS

A set of **twenty individual worksheets masters** designed to be used with Hobar manual *Electric Motors*. Worksheets include Part ID, Procedures, Skills Taught, Materials, and Evaluation. These masters can be duplicated for student use. HOBAR

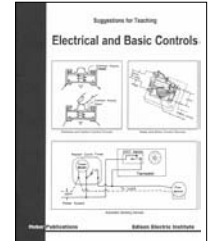
- Features of an Electric Motor
- Electric Motor Mountings
- The Electric Motor Nameplate
- Connecting a Voltmeter—Electric Motors
- Connecting an Ammeter—Electric Motors
- Connecting a Wattmeter—Electric Motors
- Using the Clamp On Meter
- Reading the Kilowatt Hour Meter
- The Split Phase Motor
- The Universal Motor
- Reversing an Electric Motor
- Electrical Fuses—Types and Uses
- Wire Size and Ampacity
- Ground Fault Circuit Interrupter
- Voltage Drop in Electric Motors
- Overload Protection of Electric Motors
- Electric Motor Speed Determination
- Characteristics of Electric Motors
- Electric Motor Drives
- Cleaning and Servicing an Electric Motor



Set of Twenty Electric Motor Worksheets:
 Order Number: 758\$18.90

ELECTRICAL & BASIC CONTROLS

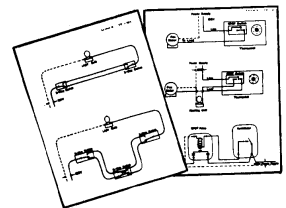
This popular manual consists of 5 basic lessons including Switches & Circuits, Relay Devices, Motor Control Devices, and Automatic Sensing Devices. Each lesson is set up in lesson plan form with objectives, teaching aids, and procedures. Subject matter covers all types of electric controls such as common switches, thermostats, humidistats, relays, photo controls, and magnetic starters. Written in easy-to-understand terms, it has numerous illustrations for full learning. HOBAR



Text: 56 pages, 1977, softcover
 Order Number: 2177.....\$8.65 each, \$6.92 (10 or more)

**ELECTRICAL AND BASIC CONTROLS
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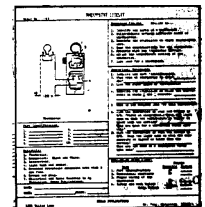
An excellent teaching aid designed to supplement instruction from manual *Electrical And Basic Controls*. Covered in this series are basic switches and controls and how to connect for various applications. These 15 Transparency Masters will greatly add to any electrical and basic control unit. HOBAR



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This set of thirteen worksheet masters can be duplicated for student learning of this important topic. Use with Hobar's *Electrical & Basic Control* manual, and *Electric Control Transparency Masters*. Each worksheet master includes Part ID, Procedures, Skills Taught, Materials and Evaluation. HOBAR



- Three Way Switch Wiring Circuit
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- N/O SPDT Magnetic Relay Circuit
- SPDT Magnetic Relay Circuit
- Push Button Magnetic Starter Switch Circuit
- Time Delay Relay Circuit
- Photoelectric Control Switch Circuit
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