

Ag Mechanics Lab

Units

Safety in the Shop, 32p
U3022a \$3.20

Student Safety Tests, 32p
Q3022..... \$3.20

Teachers' Key for Q3022
K3022 \$3.20

Transparencies

Shop Tool Identification

171 shop tools are divided into 6 categories: carpentry and woodworking, engine and machinery, metalworking, various construction skills, hand power, and horticulture.

T457 24 fr., w/guide \$18.95

Other Materials



Charts on Safety Rules

27 laminated 8 1/2" x 11" charts constantly remind students of the importance of working safely. Heavy black print is highly visible on bright yellow paper. Special lists of safety rules should be posted in every work area.

- Z490.1 General Shop
- Z490.2 Everyone Must Wear Safety Glasses at all Times in Shop
- Z490.3 Think Safety to be Safe
- Z490.4 No Horseplay or Running in Shop
- Z490.5 Tools Must be Returned & Shop Cleaned After Each Class
- Z490.20 Hand Tool
- Z490.21 Electrical Equipment

- Z490.22 Vehicle and Machinery Repair
- Z490.23 Soldering and Sheet Metal Work
- Z490.30 Portable Circular Saw
- Z490.31 Tilting Arbor Saw
- Z490.32 Radial Arm Saw
- Z490.33 Saber and Reciprocating Saw
- Z490.34 Band Saw
- Z490.35 Power Metal-Cutting Saw
- Z490.40 Jointer
- Z490.41 Router and Planer
- Z490.42 Sander
- Z490.43 Stationary Grinder
- Z490.44 Portable Grinder
- Z490.45 Drill Press
- Z490.46 Portable Drill
- Z490.60 Shielded Metal Arc Welder
- Z490.61 Oxyfuel Welder
- Z490.62 Inert Gas Shielded Arc Welder
- Z490.63 Spot Welder
- Z490.70 Gas Forge

MZ490 Set of 27 Charts on Safety Rules\$25.00

CD-ROMS

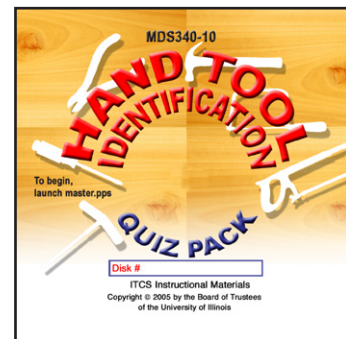


MDS340 Hand Tool Identification

is an onscreen instructional resource that provides digital images for approximately 300 hand tools. The tools are divided into 18 categories and the presentations have been developed using Microsoft PowerPoint and should run well on PCs or Macs. The hand tool categories include Clamps, Cutting and Scraping Tools, Drilling and Boring Tools, Files, Hammers and Striking Tools, Leveling Tools, Measuring Tools, Miscellaneous Tools, Planes, Pliers, Pry Bars, Punches and Chisels, Saws, Screwdrivers, Small Gas Engine Tools, Squares, Threading Tools, Wrenches, and a single set containing all of

the tools in a single presentation. The presentation includes a set of images with names, a practice set that includes only the image, a set of images with a description that includes use, size and maintenance, and the final set of presentations includes an interactive quizzing session which allows the user to identify a predetermined hand tool among three choices. Also on the CD-ROM are quizzes and keys for each hand tool category. In total, this CD-ROM contains over 2,100 slides.

MDS340..... \$99.00



MDS340-10 Hand Tool Identification Quiz Pack

MDS340-10 Hand Tool Identification Quiz Pack is a collection of quizzes from the MDS340 CD-ROM (Hand Tool Identification). This product is packaged as 10 CD-ROMs and is designed to be distributed to students as they review hand tool identification at individual work stations in a school computer lab, classroom computer, or on home and laptop computers. The quiz packs are ideal for students who need review sessions that provide immediate feedback and who are preparing to participate in Career Development Events.

The quiz packs are developed in Microsoft PowerPoint and should run well on PC or Mac computers. There are over 1,070 frames of PowerPoint on this CD-ROM. A Master Navigation file is provided to view the many files on the Quiz Pack.

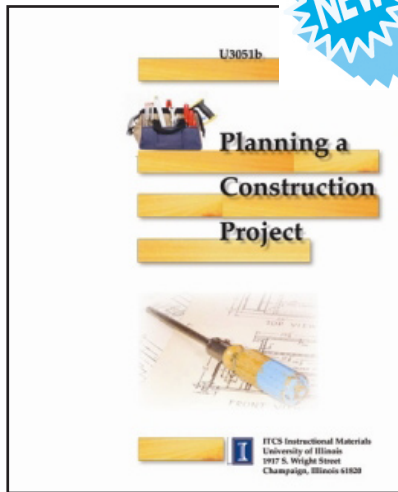
MDS340-10 \$200.00

Carpentry & Construction

Units

Using the Carpenter's Square, 20p
U3009a \$2.00

Metal Roofing & Siding for Farm Structures, 16p
U3045 \$1.60



Planning a Construction Project, 24p

This instructional unit is designed to provide instruction to beginners as they learn to plan and construct a wood or metal project. The unit provides step-by-step instruction for developing a project plan, creating a bill of materials, and making a stock cutting list. Additionally the unit provides instruction on developing a procedure for constructing the project. Determining material lists and purchasing materials is discussed with some information on pricing project materials. Example pages for each project planning step are included in the unit. Blank pages for student use are also included in the unit. Sample student evaluation pages are provided in addition to a sample instructor evaluation form.

U3051b \$3.60

Lumber: Grading, Selecting, Buying, Using, and Storing, 20p
U3055 \$2.00

Transparencies

Lumber—Buying, Grading, Selecting, Storing and Using
Use with the unit U3055 with the same title. Features illustrations, examples, and tables about lumber.

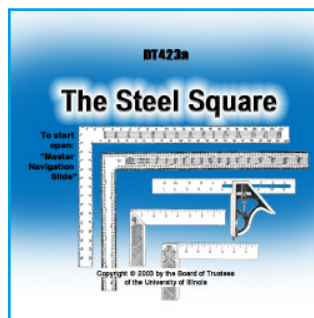
T426 50 fr., w/guide\$35.85



Rafter Marking, 62 fr.

Rafter Marking is a 62-frame PowerPoint revision of the Rafter Marking transparency set with a teacher supplement. This set provides step-by-step directions for marking gable and shed rafters using a framing square. The PowerPoint presentation is supplemented with internal navigation and is designed to work in cooperation with U3009a *Using the Carpenter's Square*. Building parts are identified and defined as part of this colorful presentation. Teacher supplemental materials include two quizzes and four practice problems, each with a key included on the CD-ROM.

DT422a\$45.00



The Steel Square

This presentation provides general information about square types, scales, and tables plus step-by-step directions are provided for marking a brace and stair stringers. Also included are images of roof types and rafter types as they apply to different roof styles. Teacher supplemental materials include a test, 2 quizzes, and 7 practice problems, each with a key.

DT423a\$45.00

Electricity

Units, Exercises, Teacher's Key

Planning for Electrical Wiring, 48p
U3003c \$4.80

Electrical Wiring Procedures, 28p
U3016a \$2.80

Electrical Wiring Exercises, 28p
Z3016b \$2.80

Using Three-Phase Electrical Power on the Farm, 8p
U3038 (bundle of 10) \$8.00

Electrical Controls in Agriculture, 20p
U3057 \$2.00

Selecting Electric Motors for Use in Agriculture, 24p
U3058 \$2.40

Installing and Caring for Electric Motors in Agriculture, 28p
U3059 \$2.80

Selecting Equipment for Electrical Installations, 24p
U3061 \$2.40

Transparencies

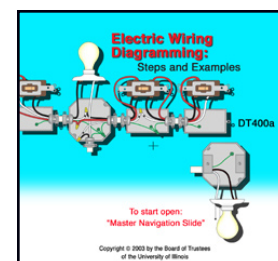
Wiring Exercises

The illustrations and diagrams for 48 electrical wiring exercises are clearly drawn and easy to follow. The 32-page study guide discusses and explains each transparency in detail.

T400a 55 fr., w/guide \$39.10

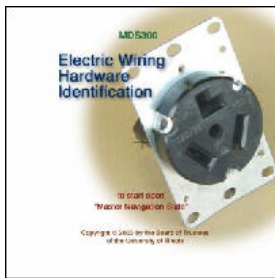


Electric Wiring Diagramming – Steps and Examples



This on-screen instructional tool of over 430 PowerPoint frames provides a sequential, step-by-step procedure to sketch 20 electric wiring diagrams. The material is organized as 5 PowerPoint units, each with 4 sample exercises. The CD-ROM also contains 9 practice problems, 2 quizzes, and keys for all supporting material.

DT400a.....\$55.00



Electric Wiring Hardware Identification

This on-screen instructional resource provides more than 1,200 PowerPoint slides detailing over 170 electric wiring hardware items. In addition to the complete set, the hardware is subdivided into 9 categories: boxes, cable and conduit, connectors and couplings, cord equipment and covers, knockout plugs and lampholders, miscellaneous hardware, receptacles and service equipment, switches and wall plates, and tools. The presentations include a set of images with names, a practice set with only images, and an interactive quiz format that lets the user identify an image among three choices.

MDS300\$99.00

Electric Wiring Hardware Identification Quiz Pack

A collection of quizzes-only from the electric wiring identification CD-ROM. The quiz pack is 10 CD-ROMs for distribution to students at individual workstations (school computer lab, classroom computers, home and laptop computers). The quiz packs are ideal for preparing students to participate in Career Development Events.

MDS300-10\$200.00

Machinery

Transparencies

Basic Principles of Hydraulics

Emphasis is on hydraulic principles, basic formulas, pistons, pumps, valves, and design functions of hydraulic systems.

T440 59 fr., w/guide \$41.70

Small Engines

Units

Small Engines—Principles of Operation, Trouble-Shooting & Tune-Up, 16p

U3014 \$1.60

Small Engines—Repair and Overhaul, 20p

U3019 \$2.00

The Two-Cycle Engine, 20p

U3020 \$2.00

Transparencies

Small Gas Engines

Basic principles of small engine operation, repair and overhaul, and maintenance are included.

T489 50 fr. \$33.85

Surveying

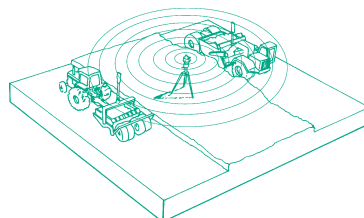
Units, Test Questions, Teacher's Key

Land Surveys and Descriptions, 8p

U2042 (bundle of 10) \$8.00

Test Questions

Q2042 pkg. of 10 plus key \$2.15



Surveying in Agriculture, 44p

U3010b..... \$4.40

Other Materials

Field Book for Surveying Notes

Z436\$1.50

Tractors & Large Engines

Transparencies

Tractor Safety

Safety rules and procedures presented apply to all sizes of tractors. The 24-page study guide includes information about each transparency.

T485a 50 fr., w/guide\$35.85

Welding & Metalwork

Units

Oxyacetylene Welding and Cutting, 28p

U3001a\$2.80

Shielded Metal-Arc Welding, 48p

U3004a\$4.80

Soldering for Home, Farm and Shop Applications, 24p

U3027\$2.40

Tungsten Inert Gas (TIG) Welding, 32p

U3036\$3.20

Metal Inert Gas (MIG) Welding, 44p

U3037 \$4.40

Agricultural Mechanics Career Development Event registration cards are listed in the MISCELLANEOUS section under Judging Materials.