



AGRICULTURAL MECHANICS & TECHNOLOGY LESSON PLAN LIBRARY

This CD-ROM includes nearly 100 lesson plans. The first unit presents mechanics from a systems approach. It features lessons on construction, electrical, metal fabrication, agricultural power, agricultural equipment, and technology systems. Later units provide coverage of employability, leadership skills, and SAE. This Library is an excellent source of lesson plans for teachers who are not technically trained in the area of agricultural mechanics. For Windows & Mac. 2002. CAERT



Order Number: 3212\$169.95

Lesson Plan Library with Power Point® Student Presentations:
Order Number: 3260\$269.95



AMERICAN FARMER

Create and manage your own successful farm with this program. You'll decide what crops to plant, livestock to raise, employees to hire, equipment to purchase, and structures to build. Plagues, weather, market trends, employee skill level and much more will play a role as you make the decisions that will determine the ultimate success of your farm. 2004.GLOBE STAR SOFTWARE



Windows CD-ROM: 2000 or XP
Order Number: GSS-JDCD\$29.95

FARM IMPLEMENTS I: TILLAGE 

From discs to deep breaking plows, tillage tools are used on almost all types of farm land. This tape discusses the names, descriptions, and different usages for common tillage implements. 20 minutes. CEV

DVD Order Number: CEV754D\$79.00

FARM IMPLEMENTS II: PLANTING AND CULTIVATION 

Learn to identify the major farm implements used by farmers for planting, drilling, seed bed preparation, and cultivation of crops as well as the primary uses of each implement. 20 minutes. CEV

DVD Order Number: CEV755D\$79.00

FARM IMPLEMENTS III: PRE-HARVEST AND HARVEST 

This video presents preparation and specialized harvesting equipment and post-harvest tools used to reap several different agricultural commodities. The tape features implements such as combines, strippers, shredders, swathers, and balers. 20 minutes. CEV

DVD Order Number: CEV756D\$79.00

TRACTORS, 4E

Text covers fundamental knowledge of the basic components of tractors and information needed for proper operation and care. Begins with identification of tractor types and use applications. Explains theory of operation of engines, transmissions, hydraulics, and accessories. Tells how to prepare tractors for the field and provides the "how-to" and "why" information needed for efficient and safe field operation. JOHN DEERE

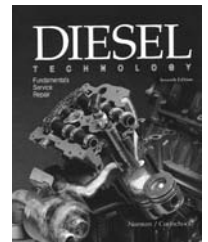
Text: 282 pages, 2008, softcover
Order Number: FM010104NC\$42.95 each, \$38.66 (10 or more)

TRACTOR MANUFACTURING 

The John Deere tradition of building quality tractors started in 1918 and continues today at a factory in Waterloo, Iowa. This video allows viewers to see many steps involved in the manufacture of John Deere tractors, beginning at the product engineering site and ending at the tractor assembly site. 30 minutes. CEV
DVD Order Number: JDR33000D\$99.00

DIESEL TECHNOLOGY

This text provides instruction on the construction, operation, service, and repair of two- and four-stroke diesel engines. It includes new information on electronic engine controls and fuel injection. Coverage ranges from the fundamentals of diesel operation to the latest developments including engine control computers, fuel management, and emission control systems. Content applies to on- and off-road vehicles, marine, agricultural, and industrial applications. GOODHEART-WILLCOX



Text: 672 pages, 2007, hardcover
Order Number: 770-8\$75.00 each, \$60.00 (10 or more)

Workbook: 286 pages
Order Number: 771-5\$20.00 each, \$16.00 (10 or more)

Instructor Guide: Includes answer key and ASE practice test.
Order Number: 772-2\$60.00

AGRICULTURAL FIELD SPRAYERS TRANSPARENCY MASTERS

This set of 30 transparency masters will prove to be a valuable teaching aid for teaching field sprayers. This subject matter oriented unit covers: parts of the field sprayer, how the components function together, pumps, nozzles, agitators, regulators, selectors, and spray patterns. In addition, nozzle and pump selection is covered in detail. A number of the masters can be used as classroom and laboratory worksheets making excellent student exercises. HOBAR
Order Number: 8776TM\$7.00

SPRAYER WORKSHEETS

These five worksheets on sprayers will assist in teaching this topic and can be duplicated for student use. Each individual worksheet includes Part ID, Procedures, Materials, Skills Taught, and Evaluation. HOBAR

- Parts Of The Agricultural Sprayer
- Sprayer Pumps
- Sprayer Nozzles
- Calibrating Sprayers For Broadcast Application
- Calibrating Sprayers For Band Applications

Set of Five Sprayer Worksheets:
Order Number: 899S\$5.65

ENCYCLOPEDIA OF AMERICAN FARM IMPLEMENTS AND ANTIQUES

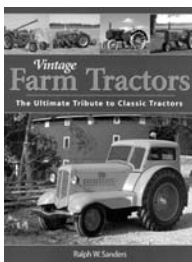


C.H. Wendel has updated his encyclopedic reference work covering American farm implements and farm-related antiques from the 1800s through the 1940s. This edition has more than 2,500 illustrations and a listing of trade names, equipment makers and locations. Each listing, beginning with alfalfa grinders and ending with windmills, includes an overview of the implement or tool, the most popular manufacturers, and a brief summary of its intended use. F&W

496 pages, 2004, Over 2500 illustration, softcover
Order Number: VAP136.....\$29.99

VINTAGE FARM TRACTORS

The Ultimate Tribute to Classic Tractors



Vintage Farm Tractors is the ultimate tribute to the classic tractor with in-depth coverage of all the famous models along with many never-before-seen tractors, prototypes, and rare variations. Packed with colorful anecdotes of the genius inventors and pioneering companies that created them, *Vintage Farm Tractors* contains more than 170 outstanding color photographs, along with historical ads, brochures, and black-and-white illustrations. The author, one of the world's best-known farm tractor photographers, spent eight years collecting and shooting the spectacular photographs. MOTORBOOKS

192 pages, 1996, fully illustrated, softcover
Order Number: VAP194.....\$16.95

TILLAGE, 4E

This book includes chapters on: tillage systems and conservation planning soil compaction and its management, crop residue management, tractor and implement preparation and adjustment, and toolbars. It also discusses in detail primary tillage, secondary tillage, dryland tillage, tillage at seeding, and post-emergence tillage. The focus on conservation tillage has sprung up in response to concerns for reducing energy costs, soil erosion, fertilizer and pesticide use, water pollution and operating costs. Using this book will not only bring you into compliance, but it will also put money in your pocket by saving your most valuable asset, soil. JOHN DEERE

Text: 166 pages, over 400 illustrations, 2007, softcover
Order Number: FMO11104NC\$37.95 each, \$34.15 (10 or more)

Instructor's Guide & Transparencies: 186 pages, loose-leaf/drilled
Order Number: FMO11504T\$83.95

Student Guide: 158 pages, loose-leaf/drilled
Order Number: FMO11604W\$23.95 each, \$21.56 (10 or more)

SHOP TOOLS, 6E

Covers the basic hand tools widely used in shop work. Emphasizes safety and use of the right tool for each job. Text includes handy tables of frequently used weights and measures. Has fastener torque guide for various types of fasteners. "Test Yourself" section helps students measure learning progress. JOHN DEERE

Text: 66 pages, 80 illustrations, 2005, softcover
Order Number: FOS5106NC\$25.95 each, \$23.36 (10 or more)

HAY AND FORAGE HARVESTING, 5E

Discusses purposes and uses of different types of hay and forage equipment. Gives theory of operation for each type of machine using color illustrations. Covers all types (mowers, conditioners, rakes, balers, handling systems, cubers, choppers, blowers, and forage harvesters). Explains new large-package hay-handling systems, proper operation and field adjustments. Shows correct steps in maintenance, storage, and troubleshooting. Safety, planning, and preparation are stressed throughout this book. JOHN DEERE

Text: 276 pages, over 500 illustrations, 2004, softcover
Order Number: FMO14105NC\$40.95 each, \$36.86 (10 or more)

Instructor's Guide & Transparencies: 216 pages, loose-leaf/drilled
Order Number: FMO14505T\$52.95

Student Guide: 118 pages, softcover
Order Number: FMO14605W\$17.95 each, \$16.16 (10 or more)

COMBINE HARVESTING, 5E

This book shows you – with many illustrations – how to operate, maintain, and improve the efficiency of your combine. This book will teach you how to determine grain losses and overcome them, your combine's production capacity, when to combine, and how to troubleshoot field problems – and do it in easy steps. You'll also learn how to make necessary machine adjustments and how to maintain each component at peak operating performance. The harvesting capacity and machine loss charts in the back of this book and the troubleshooting charts throughout it are worth the purchase price in themselves. JOHN DEERE

Text: 216 pages, 2007, softcover
Order Number: FMO15105NC\$36.95 each, \$33.26 (10 or more)

Instructor's Guide & Transparencies: 98 pages, loose-leaf/drilled
Order Number: FMO15505T\$43.95 each

Student Guide: 102 pages, loose-leaf/drilled
Order Number: FMO15105NC\$19.95 each, \$17.96 (10 or more)

MACHINERY MANAGEMENT, 5E

With this information, you can build a solid foundation of knowledge that can be used to make the most efficient machinery management decisions. The book is divided into three sections. Section one covers how to be more efficient by matching machines and power units to different situations. Section two gives information that can be used to estimate and analyze costs so better machinery management choices can be made. The final section gives several examples of the applications of information contained in the first two sections. Emphasis is placed on solving practical problems. JOHN DEERE

Text: 198 pages, 1999, softcover
Order Number: FBM17105NC\$55.95 each, \$50.36 (10 or more)

Instructor's Guide: 200 pages, softcover, loose-leaf/drilled
Order Number: FBM17505T\$55.95

Student Guide: 144 pages, softcover, loose-leaf/drilled
Order Number: FBM17605W\$30.95 each, \$27.86 (10 or more)

PREVENTIVE MAINTENANCE, 7E

This is the definitive "how-to" book on proper procedures to reduce failures, save on operating costs and keep your equipment safe. Chapters cover engine intake and exhaust system, lubricating, cooling and electrical systems, power trains, hydraulics, and other components such as cab air conditioning and accessories. It covers maintenance on old as well as new equipment. Significant coverage is provided for both diesel and gasoline engine types. JOHN DEERE

Text: 284 pages, over 400 illustrations, 2007, softcover
Order Number: FMO16107NC\$53.95 each, \$48.56 (10 or more)

Instructor's Guide & Transparencies: 136 pages, softcover/drilled
Order Number: FMO16507T\$44.95

Student Guide: 154 pages, softcover/drilled
Order Number: FMO16607W\$20.95 each, \$18.86 (10 or more)

ENGINES, 9E

Begins with basic theory of 2- and 4-cycle engines. Covers all engines systems: fuel (3 types); intake and exhaust; lubrication, cooling and governing. Shows test equipment and service tools needed for engines. Explains engine diagnosis and testing. Shows actual photos of failed parts. JOHN DEERE

Text: 420 pages, 496 illustrations, 2003, softcover
Order Number: FOS3009NC\$50.95 each, \$45.86 (10 or more)

Instructor's Guide: 196 pages, softcover
Order Number: FOS3009T\$44.95

Student Guide: 234 pages, softcover/drilled
Order Number: FOS3009W\$31.95 each, \$28.76 (10 or more)

HYDRAULICS, 7E

By starting with the basics, the book builds your knowledge step by step. This book covers the principles of hydraulics – how it works. It goes into detail about the working parts of hydraulic circuits. It shows you how to properly maintain hydraulic circuits as well as how to diagnose and test problem areas, plus an entire chapter on safety. JOHN DEERE

Text: 296 pages, 2006, softcover
Order Number: FOS1007NC\$45.95 each, \$41.36 (10 or more)

Instructor's Guide: 142 pages, softcover/drilled
Order Number: FOS1007T\$38.95

Student Guide: 146 pages, softcover/drilled
Order Number: FOS1007W\$30.95 each, \$27.86 (10 or more)

ELECTRONIC & ELECTRICAL SYSTEMS, 8E

This book details the dangers of electricity and describes how to safely work with electrical systems. It covers the principles of electricity and explores the electron and how to measure it. It goes into detail about electrical systems and provides information for properly maintaining and diagnosing circuits. It gives a basic introduction to mathematics for electronics and controllers and covers basic components found within a controller while also covering the basic operation of computers and programmable controllers. JOHN DEERE

Text: 542 pages, 650 color illustrations. 2005, softcover
Order Number: FOS2008NC\$50.95 each, \$45.86 (10 or more)

Instructor's Guide: 208 pages, loose-leaf/drilled
Order Number: FOS2008T\$44.95

Student Guide: 250 pages, loose-leaf/drilled
Order Number: FOS2008W\$33.95 each, \$30.56 (10 or more)

POWER TRAINS, 7E

Tells how transmissions and clutches work—gear, friction, and fluid types. Shows the basic types of gears and what gear failures look like. Explains backlash, endplay, and preload adjustments. Covers six basic types of clutches in detail. Gives complete information on modern hydrostatic drives, torque converters, and planetary units. Tells how to troubleshoot and locate failures. Text features “Test Yourself” quizzes, glossary of terms and symbols, and pictures of failed parts. JOHN DEERE

Text: 266 pages, 212 color illustrations, 2005, softcover
Order Number: FOS4007NC\$39.95 each, \$35.96 (10 or more)

Instructor's Guide: 88 pages, softcover/drilled
Order Number: FOS4007T\$33.95

Student Guide: 120 pages, loose-leaf/drilled
Order Number: FOS4007W\$27.95 each, \$25.16 (10 or more)

BEARINGS AND SEALS, 6E

Helps students understand bearings and seals and how to service them with speed and skill. Covers all types. Explains bearing loads, friction, “crush,” and other concepts; maintenance of bearings—cleaning, lubrication, adjustment, and repair; use of gaskets, oil seals, sealing rings, and others. Tells how to care for seals, both static and dynamic types. “Test Yourself” questions and answers help participants review important facts. JOHN DEERE

Text: 113 pages, 136 illustrations, 2005, softcover
Order Number: FOS5406NC\$27.95 each, \$25.16 (10 or more)

FUELS, LUBRICANTS, AND COOLANTS, 9E

This “how-to”book shows the different types of each; their characteristics, designations, and additives; diagnosing systems problems and identifying parts failure; explaining how to repair the systems. It is filled with illustrations to clearly demonstrate what must be done through photographs, drawings, pictorial diagrams, troubleshooting charts, and diagnosing charts. JOHN DEERE

Text: 102 pages, 2008, softcover
Order Number: FOS5809NC\$22.95 each, \$20.66 (10 or more)

FASTENERS, 6E

All types of mechanical fasteners are covered in this practical classroom text. Each type of hardware is discussed—bolts, cap screws, nuts, screws, studs, pins, rivets, sealants, specialty fasteners, and more. Emphasis is on purpose, design, use, removal, and installation. Because the proper tightening of many bolts, nuts, and cap screws has become very critical in modern high-powered, high pressure machines, a chapter discussing torque and tension is included. Special fastener terms and symbols are explained. JOHN DEERE

Text: 100 pages, 175 illustrations, 2008, softcover
Order Number: FOS6005NC\$22.95 each, \$20.66 (10 or more)

BELTS AND CHAINS, 6E

Covers basic theory and operation of belt and chain drives. Explains various types of belts: V-belts, banded-V, linked-V, V-ribbed, timing belts, flat belts, and others. Explains complete maintenance of belt drives—everything from belt slip to sheave wear. Tells about various kinds of chains—roller, rollerless, silent, detached-link, block, pintle, and others. Covers maintenance and adjustment of chain drives. Gives photo examples of failures. Includes troubleshooting charts. JOHN DEERE

Text: 86 pages, 86 illustrations, 2004, softcover
Order Number: FOS5306NC\$21.95 each, \$19.76 (10 or more)

MACHINERY REPLACEMENT STRATEGIES

This text is designed to bring together two important aspects of a machinery replacement decision. First, it offers a “real world” comparative cost analysis of machinery replacement alternatives: repair and keep using your present machine, trade for a new machine, trade for a used machine, rent or lease a machine, or use a custom operator. Second, it develops an analysis of your financial situation to help determine the feasibility of each alternative. Computer software is included. JOHN DEERE

Text: 104 pages, 1994, softcover
Order Number: FBM13101NC\$24.95 each, \$19.96 (10 or more)

Instructor's Guide: 90 pages
Order Number: FBM13501T\$29.95

Student Guide: 42 pages
Order Number: FBM13601W\$19.95 each, \$15.96 (10 or more)



COMPRESSION TESTER

Heavy-duty quality, 0–300 lbs. and 0–21 Kg/sq cm. English-metric calibration. Fits 14mm and 18mm spark plug holes. Push-in type.

Order Number: KAL-2502\$33.25

COMPRESSION TESTER – FLEX-DRIVE

Heavy-duty quality, 0–300 lbs. and 0–21 Kg/sq cm. English-metric calibration. Fits 14 mm and 18 mm spark plug holes. Release valve for successive readings. Screw-in type.

Order Number: KAL-2504\$52.45



CALIBRATED IGNITION TESTER

Checks for spark without removing spark plugs from engine.

Order number: KD2756\$10.60



ANTI-FREEZE TESTER

Order Number: AFT-1\$16.50



GREASE GUN

Heavy duty, holds 14 oz. cartridge.

Order Number: ATD5000\$19.75



REPLACEMENT GREASE CARTRIDGE

NLGI Grade 2.

Order Number: G-4ZF44\$4.85



PISTOL OILER

Rigid spout, 6 oz. capacity. Plews

Order Number: 50-515\$10.95



HANDLED OILER

Rigid spout, 1 pint capacity. Plews

Order Number: 50-440\$14.25



AUTOMATIC CHOKE AND CARBURETOR CLEANER

16 oz. aerosol can.

Order Number: 80079\$8.30



WD-40

The original problem solver. Stops squeaks, protects metal, loosens rusted parts, and displaces moisture. 11 oz. aerosol can.

Order Number: 40015\$4.25



SILICONE LUBRICANT PLUS

Seals out moisture, prevents sticking, prevents freezing of door and trunk locks, acts as an excellent lubricant for window channels, and more. 9 oz. aerosol can.

Order Number: 3M08877\$6.25



“CLICKER” TORQUE WRENCHES

The operator will hear a “click” and feel the breakover when the pre-set torque is reached. The micrometer adjusting handle lets the operator pre-set the required torque valve and the patented locking mechanism holds it. This torque wrench incorporating the famous S-K reversible ratchet is the lightest, slimmest, easiest-to-use tool of its kind.

3/8” Drive – 10–100 ft. lbs. torque capacity, 1/2 ft.lb. steps of graduation, overall length 18”. Order Number: SK-74104\$137.00

1/2” Drive – 10–150 ft. lbs. torque capacity, 1 ft.lb. steps of graduation, overall length 21”. Order Number: SK-74151\$142.00



3/8” DRIVE TORQUE WRENCHES

0–300 lbs/in (10 in. lb)

Order Number: 19393\$78.65



VALUE 3/8” DRIVE TORQUE WRENCH

Dual scale reads 0–800lbs./in. and 0–90 Newton meters.

Order Number: S86-383B\$48.00

DEAD BLOW HAMMERS

One piece Uni-Cast Construction with Dead Blow Heads.

20 ounce – 1–3/4” face diameter, 3–3/4” head length, 11” overall length.

Order Number: S57-531\$32.00

21 ounce – 2” face diameter, 4–1/4” head length, 12–3/4” overall length.

Order Number: S57-532\$38.00

42 ounce – 2–1/2” face diameter, 4–3/4” head length, 14” overall length.

Order Number: S57-533\$54.00

52 ounce – 2–3/4” face diameter, 5–1/4” head length, 16” overall length.

Order Number: S57-534\$74.00



THREE PIECE SPARK PLUG SOCKET SET

3/8” Universal Spark Plug. Sizes include 3/4”, 5/8”, and 13/16”.

Order Number: S85-721\$13.88

