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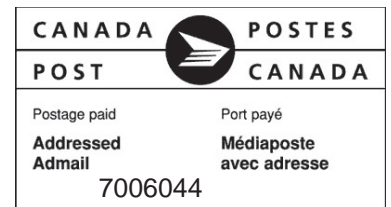
Technology Education

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Creating Mobile Apps Series

Grades 9-Coll/Univ 2012 22 min ea Films Media Group

With the app market in boom mode, entrepreneurs across North America and around the world have poured their energy and resources into app development. What does it take to stake a claim in this high-tech gold rush? What tools and techniques are most likely to produce a winner? This two-part series answers those questions, going inside the world of app creation—from the eureka moment that inspires a new project through various stages of content and interface development to the final phases of deploying and promoting the app. Weighing platform options, ensuring ease of navigation, and integrating social media are all important topics of discussion, and both episodes feature detailed interviews with experts who specialize in app development.

Mobile App Research and Planning

The process of bringing a successful app to market begins long before the actual software is developed. As with any endeavour that fuses commerce and creativity, the app usually starts with a spark of inspiration and gets fleshed out through market research and intensive planning. This program takes viewers through those initial phases with hip, high-energy visuals and commentary from experts who create apps for a living. Topics include identifying the target audience or consumer base; studying apps aimed at a similar market; creating a project plan; designing with a focus on ease of use and the customer's ability to share with other users; strategizing to compete against more corporate, big-budget apps; considering various development tools to utilize; thinking ahead regarding platform options; looking at monetization models; distinguishing between apps that deliver a lot of content and those that use little or none; using content management systems; and projecting costs and profitability.

#394352DV-TY3 \$109.95

Mobile App Development and Deployment

Once the purpose, basic architecture, and potential consumer base of a mobile app have been established, it's time to get busy building it. But app development is typically a complex undertaking and subject to a wide range of variables. This program helps viewers sift through the process of successful app construction with the aid of expert interviews and eye-catching video and graphics. Topics include choosing a platform (mainly Apple vs. Android); designing the user interface with an eye toward simplicity and functionality; using wireframes to storyboard the app's navigation tree; balancing a tab bar approach with screen size concerns; integrating social media; developing visual, audio, and narrative content; designing data structures; using server-side technology; testing algorithm design; load testing and beta testing; conforming the app to platform specifications; promoting it through search engine optimization, social media, and viral marketing; and maintaining the app with ongoing product analysis.

#394353DV-TY3 \$109.95: DVD

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So You Want to Be a Designer?

A How-To Guide to Product Design

Grades 9-Coll/Univ 2011 25 min each Films Media Group

As consumer attitudes change so too does the demand for high quality, well-designed, environmentally sustainable goods. And in turn, the call for new kinds of products creates endless opportunities for designers all around the globe. This 8-part series explores the challenges facing product designers, covering a range of subjects including user design, mass manufacture, testing and modification, and the use of sustainable materials both for packaging and for products. The series features case studies, explains relevant terminology, and provides an in-depth look at manufacturing processes.

Designing for the User

In this program viewers learn how observation, research data, and a feedback development cycle are brought into play to ensure that products meet the needs of the people using them. The video also profiles a bicycle that had been marketed to children but built for adult proportions; after the design flaws were addressed, the bikes were safer and easier for kids to ride.

#394164DV-TY3 \$109.95: DVD

Designing with Recycled Materials

This program profiles two companies who have successfully created products from recycled goods. London-based Pli Design produced a stackable chair made from recycled Sony PlayStations, after feeding shredded game consoles through an extruder to learn what kinds of polymers they contained, then determining how these would impact strength and flexibility of the final design.

#394165DV-TY3 \$109.95: DVD

Life Cycle Assessment

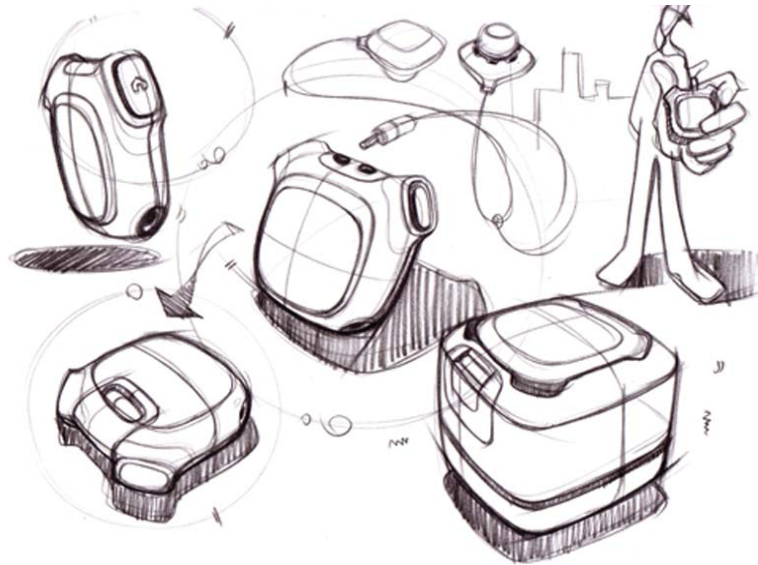
Volvo's ReCharge hybrid car has an electric motor in each of its wheels, helping to reduce the amount of carbon dioxide created when being driven. But a car's performance on the road is only one part of its overall green rating. With the ReCharge serving as an example, this program shows how Life Cycle Assessment is employed to evaluate the environmental impact of manufactured goods.

#394166DV-TY3 \$109.95: DVD

Product Design and Mass Manufacture - Design Optimization

By working closely with potential customers as well as suppliers, manufacturers, and distributors, designers can optimize the products they create while keeping tooling and assembly costs down. In this program designers from Britain's Kinneir Dufort employ market research and model-making technology to redesign a peak flow meter, used by people with asthma to measure lung function.

#394167DV-TY3 \$109.95: DVD



Sustainable Packaging

As consumer attitudes change so too does the demand for high quality, well-designed, environmentally sustainable goods. And in turn, the call for new kinds of products creates endless opportunities for designers all around the globe.

#394168DV-TY3 \$109.95: DVD

Choosing Sustainable Materials

This program profiles CO2 Zero, an eco-friendly housing development in the UK, focusing on its use of recycled plastics and FSC-certified wood.

#394169DV-TY3 \$109.95: DVD

Designing for Innovation and Safety

Decades ago, Volvo's famous safety features were the least appealing part of their cars, at least from an aesthetic standpoint. Now designers work with engineers from the beginning of the development process to make sure that Volvo remains competitive on all fronts. In this program Volvo representatives address the issue of combining safety features with good design while maintaining brand identity.

#394170DV-TY3 \$109.95: DVD

Product Design, Testing, and Modification

Trunki is a popular children's ride-on suitcase—its brightly coloured, rounded surfaces appeal to toddlers and parents alike. But when its designer appeared on a British TV show featuring the product, its towing strap broke, sending Trunki into another round of modification. This program explains how a product became a worldwide success through following three important principles of good merchandise design.

#394171DV-TY3 \$109.95: DVD



Engine Performance ASE Certification Series

Grades 9-Coll/Univ 2012 25-35 min each A Shopware Production
With this three-part series on engine performance and repair, technicians-in-training develop the aptitude they'll need to succeed on the ASE A8 test while building hands-on skills that will enable them to diagnose and solve a range of engine problems. Videos are broken down into self-contained segments, each of which focus on specific areas of ASE-related proficiency, and presented by two high-energy, ASE-certified instructors who make parts identification and maintenance lessons easy to follow. Demonstrations are performed in a full-service shop on a range of automobiles, while no-fluff graphics, on-screen quizzes, and plenty of upbeat reminders about professional integrity round out this must-have instructional resource.

2012 Bellwether Award Finalist

Engine Diagnosis, Intake and Exhaust, and Emissions

A great auto technician isn't just a "gear head." He or she needs keen analytical thinking skills to diagnose engine problems. This video guides car techs at all instructional levels in strategic engine diagnosis and the components of a car's intake system, exhaust system, and emissions controls. Viewers are shown testing procedures for power balance, compression, cylinder leakage, oil pressure, and other engine checks; a clear explanation of volumetric efficiency; the mechanics of turbo-chargers and super-chargers; how to interpret the results of a five-gas analysis in real time; how to check the EGR valve in an EVAP system; and much more.

#394281DV-TY3 \$109.95: DVD, resource guide

Ignition Distributors, Distributorless Ignition Systems, and Fuel Systems

A car's ignition gives it the spark of life—but, as any good technician knows, figuring out how ignition and fuel systems really work isn't that simple. This video sheds light on the daunting maintenance challenges found in ignition distributors, distributorless ignition systems, and fuel systems. Viewers learn about diagnosing problems with several components—including distributors, distributor caps, distributor rotors, spark plugs, and spark plug wires—and how to build an ignition system. The next section covers the computers, triggering devices, coil packs, modules, and other elements of a distributorless ignition system, while the subsequent chapter looks at fuel pumps, fuel injectors, fuel filters, fuel pressure tests, injector testing, and more.

#394282DV-TY3 \$109.95: DVD, resource guide

Computer Systems, Computer System Sensors

To understand whether or not a vehicle is functioning properly and determine its potential problems, a service provider now has to understand computers. This video offers guidance in the complex workings of a car's nerve center and the sensors that bring information, from mass air flow to engine coolant temperature, into an automotive computer system. Viewers can sharpen their skills and knowledge in interpreting real-time scan tool readings for cars that often boast over 50 microprocessors. Examples of modules that technicians frequently deal with are shown as the video discusses OBD II procedures and a variety of sensors, such as those for throttle position, heated oxygen, manifold absolute pressure, intake air temperature, and more.

#394283DV-TY3 \$109.95: DVD, resource guide

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Braking Systems ASE Certification Series



Braking Systems ASE Certification Series

Grades 9-Coll/Univ 2012 22-33 min each A Shopware Production

When it comes to automotive professionalism and a concern for customer safety, nothing is more important than high-quality brake repair work. Use this three-part series to give auto-shop students and service trainees their best shot at acing the ASE A5 test, along with real-world capabilities in diagnosing and solving a variety of braking system problems. Episodes are divided into self-contained chapters, each of which pin-points certain areas of ASE-related competence, and led by two authoritative, ASE-certified instructors who make it easy to identify parts and internalize maintenance lessons. Demonstrations are carried out in a fully equipped shop on a range of vehicles, while concise quizzes, helpful graphics, and friendly coaxing on the need for professional integrity add extra shine to this vital teaching toolkit.

Brake Fundamentals, ABS, and Flaring

The laws of physics are central to brake technology, but you've got to put theory into practice when servicing a braking system. This video helps automotive students and trainees build a solid knowledge base in brake diagnosis and repair, from the wonders of ABS technology's three modes of operation to the nitty-gritty of flaring a brake line. Illustrating the basic roles of the master cylinder and the brake booster, the video looks at antilock systems, traction control, and the basics of inputs and outputs. Scan tool testing is also illustrated. Then, viewers learn the proper way to bend, cut, flare, and install a brake line, including both double flare and ISO or bubble flare techniques, as well as how to troubleshoot brake hose problems.

#394304DV-TY3 \$109.95: DVD, resource guide

Master Cylinders, Valves and Bleeding, and Power Assist

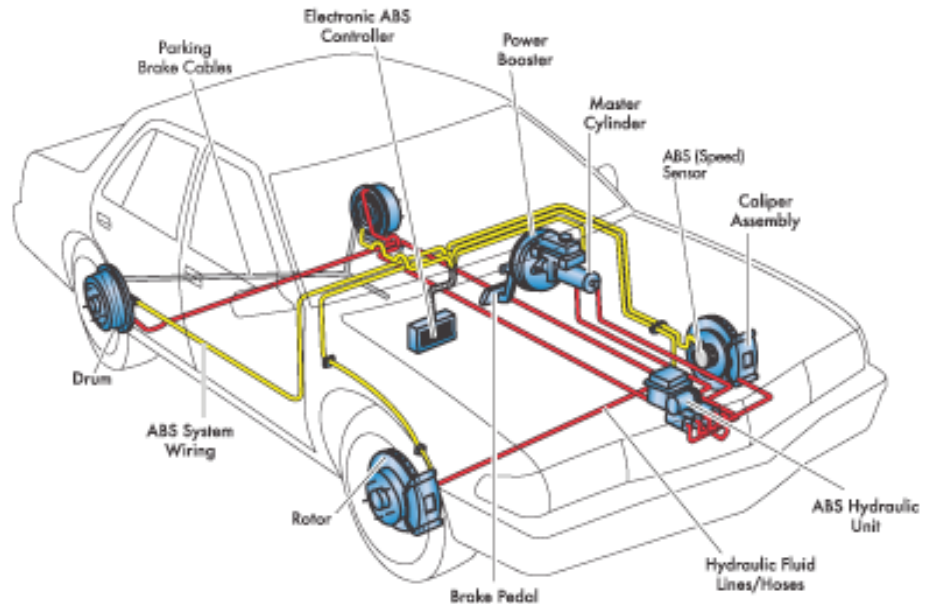
The ins and outs of brake system maintenance require skilled hands, a sharp eye, and a focused mind. This video serves as a guide to performing work on master cylinders, valves, and power assist components. Dissecting the master cylinder in order to look at its hydraulic components, compensating port, vent port, step bore cylinder, and other parts, the video also examines metering valves, combination valves, proportion valves, and their functions, while discussing pedal force, mechanical advantage, hydraulic advantage, vacuum suspended boosters, atmospheric suspended boosters, tandem boosters, single diaphragm boosters, check valves, and more. All four modes of bleeding are covered.

#394305DV-TY3 \$109.95: DVD, resource guide

Disc and Drum Brakes

Although a car technician needs to become familiar with both disc and drum brakes, each brake type has its own service-related quirks and challenges. This video features both disc and drum instruction for automotive students and service trainees. The disc brake section shows viewers different types of disc pads, rotors, and calipers; how to cut rotors using either a standard or on-car brake lathe; how to visually inspect the lines; how to disassemble the front disc and remove the rotor; and how to reassemble in a professional manner. The drum brake section covers drum shoes, springs, hold-downs, wheel cylinders, and other parts, with insight on cutting drums, disassembly, and reassembly. Staying alert for problems during a test-drive is also emphasized.

#394306DV-TY3 \$109.95: DVD, resource guide





Powertrain Technology and Service Series



Grades 9-Coll/Univ 2012 19-25 min each

A Shopware Production

From cutting-edge component design to fine-tuned methods of service and repair, this seven-part series takes viewers through the ins and outs of automotive powertrain technology. Each video covers a specific component or set of components, using detailed cutaways and stylish animated diagrams to demonstrate working parts and how they're serviced. Whether the topic is pistons or planetary gear sets, drive axles or differential disassembly, students are sure to come away with a vast new automotive vocabulary and a greatly enhanced understanding of professional car and truck repair.

Hybrid Powertrain Technology

With all major car manufacturers now producing hybrid gas-electric vehicles, it is critically important that automotive students understand the design and function of hybrid technology and the differences between various hybrid systems. This video helps develop that understanding through the use of dynamic 3-D animation and detailed live-action visuals.

#394362DV-TY3 \$109.95: DVD, online guide

Automatic Transmission Technology

This video provides an in-depth technological grounding that will enable students to troubleshoot and repair systems which make up today's automatic transmissions.

#394363DV-TY3 \$109.95: DVD, online guide

Manual Transmission Technology

This video illustrates the engineering and operating principles of helical gear manual transmissions with help from high-energy graphics, animation, and live-action footage.

#394364DV-TY3 \$109.95: DVD, online guide

Clutch Operation and Service

Demonstrating a wide range of standard shop techniques as well as a few handy tricks of the trade, this video introduces viewers to the operation and service of typical automotive and light truck-type clutches.

#394365DV-TY3 \$109.95: DVD, online guide

CV Axle Technology

Almost all new cars come equipped with constant velocity or CV drive axles, and CV joints are needed in front-wheel-drive vehicles to avoid driveline vibration. Likewise, cars with front-wheel drive or independent rear suspension use CV axle shafts for maximum flexibility. Since millions of today's cars now utilize this technology, understanding the makeup and function of CV axles is crucial to mastering this high-demand area of auto repair work.

#394366DV-TY3 \$109.95: DVD, online guide

Differential Technology

As any automotive trainee soon learns, a car's differential must provide torque to propel the vehicle, even when the wheels and axles are turning at different speeds. Various differential designs are used to accomplish this and other functions in rear-wheel drive, front-wheel drive, and all-wheel drive vehicles. This video guides students through various differential and drive designs and summarizes how each one operates.

#394367DV-TY3 \$109.95: DVD, online guide

Differential Service

Since the differential must transfer engine power to both drive axles, it is exposed to high stress loads. After prolonged driver use (or abuse), gears, bearings, shafts, and other parts can fail. Therefore, well-trained technicians are needed to service the front and rear differentials found in today's vehicles. This video shows how to diagnose common differential and drive axle problems and perform essential services and repair operations.

#394368DV-TY3 \$109.95: DVD, online guide

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Basic Car Care

Grades 9-Coll/Univ 2008 24 min
Films Media Group

This is an excellent program for anyone owning and operating a motor vehicle. It brings a basic owner's manual "to life" and summarizes the tasks that can and should be done without the use of specialized tools. The program covers checking and adding fluids, inspecting for obvious problems with belts and hoses, changing a flat tire, using jumper cables on a dead battery, paint touch-up and care, body lubrication, lightbulb replacement, and much more.

#010786DV-TY3 \$109.95: DVD

How Your Car Works

Grades 9-Coll/Univ 2008 17 min
Films Media Group

It's the ultimate challenge for every basic automotive instructor: how to teach students who know almost nothing about car technology. This video is designed for viewers who might have only a vague understanding of an automobile's inner workings, helping them to become more technically informed about vehicle parts, systems, and operation. Contains material on hybrid cars and systems.

#010785DV-TY3 \$109.95: DVD



Automotive Computer Systems

Grades 9-Coll/Univ 2008 19-26 min ea A Shopware Production

This series provides a basic working knowledge of automotive computer systems and the ins and outs of OBD-II diagnostics. Students will absorb lessons in computer system operation, trouble codes, scan tools, and repair procedures, while hybrid engine technology is also addressed.

Viewable/printable instructor's guide are available online.

Automotive Computer System Operation

Shows students how to analyze scan-tool data retrieved from OBD II vehicles.

#700636D-TY3 \$109.95: DVD

Computer On-Board Diagnostics

This video explains the general operation and many of the fine points of on-board diagnostic systems. Illustrates the different systems within a car—brakes, electrical, steering, etc.—that an OBD-II system monitors and troubleshoots.

#700637D-TY3 \$109.95: DVD

Automotive Computer System Service

This program shows students how to use a scan-tool to diagnose car system problems, covering the following specific topics: pinpoint tests; active sensor service for oxygen, magnetic, knock, and light or solar sensors; passive sensor service for temperature, throttle position, pressure, and flow sensors; sensor replacement; actuator service; and computer service.

#700638D-TY3 \$109.95: DVD

Scanning Automotive Computer Problems

The program illustrates a typical scan tool interface and its digitally displayed options, as well as the many types of codes—including hard, soft, and manufacturer—it produces.

#700639D-TY3 \$109.95: DVD

Electrical Systems Series

Grades 9-Coll/Univ 2009 10-17 min ea A Shopware Production

This seven-part series uses cutaways, animated component builds, diagrams, close-ups of parts, and footage of auto techs doing tests and making repairs to illustrate the operation and servicing of automotive electrical systems. Includes information on both late-model and older-style vehicles.

Charging System Operation

This video provides an overview of the charging system, with its battery, alternator, voltage regulator, and starter solenoid.

#393649DV-TY3 \$109.95: DVD

Charging System Service

An automotive technician shows how to diagnose charging system malfunctions

#393650DV-TY3 \$109.95: DVD

Ignition System Operation

Focuses on five components: spark plugs, secondary wires, ignition coils, distributors, and electronic control units. Distributorless ignition systems are discussed as well.

#393651DV-TY3 \$109.95: DVD

Ignition System Service

In this video, an automotive technician demonstrates how to inspect, maintain, and replace secondary wires, spark plugs, distributors, ignition coils, electronic control units, and power train control modules.

#393652DV-TY3 \$109.95



Starting System Operation

This video explains the functions of the starting system and the construction of its components in detail: the battery, starter motor, starter drive, solenoid, in-dash or in-column ignition switch, and neutral safety switch or clutch switch.

#393653DV-TY3 \$109.95: DVD

Starting System Service

In this video, an automotive technician troubleshoots the most common problems involving the starting system.

#393654DV-TY3 \$109.95

Using a Load Tester

This video explains how to use a load tester to analyze the state of the battery, starting system, and charging system.

#393655DV-TY3 \$109.95



Safety and Technology Series



Grades 9-Adult 2011 21-23 min each

A Shopware Production

Working in the crafts and the trades is a rewarding way for people to get their hands into their work—but it can be dangerous, too. This five-part series shows how to play it safe when working with technology used in various professions. Protect your students by making these videos compulsory viewing!

“...these DVDs provide teachers with the step-by-step guidelines for student safety while meeting specific instructional objectives....Educators required to provide safety instruction for vocational/technology education programs will find that this series addresses the specific objectives in the safe use of dangerous equipment while providing additional resources to enhance the curriculum content.”

—Library Media Connection

Electrical Safety

Those who work with electricity continually run the risk of electric shock and electrical fires. This video details electricity-related safety procedures to follow for these hazards as well as protection of electrical instruments and solid-state devices. An excellent overview for those who work with electricity and a useful general safety video for anyone else studying technology. #393942DV-TY3 \$109.95: DVD

Welding Safety

This video covers the most important safety rules and protective equipment to use when performing MIG, TIG, arc, and gas welding. Welding helmets and their lens ratings, leather aprons and gloves, welding gas respirators, heat shields, and fire extinguishers are discussed, and various types of welders, including plasma cutters, are illustrated. #393943DV-TY3 \$109.95: DVD

Woodworking Safety

Woodworking can be a fun and very rewarding hobby or profession. However, the technology behind it can be dangerous without proper training and attention. This video summarizes the most critical safety measures to observe when using table saws, radial arm saws, planers, routers, lathes, joiners, large belt sanders, and other woodworking technology. The bottom line? Woodworking tools and equipment are very powerful machines that must be understood and respected. #393944DV-TY3 \$109.95: DVD

General Shop Safety

This video demonstrates the types of dangers present in any industrial or manufacturing atmosphere and then explains how to prevent accidents. Actual industrial accidents (cranes collapsing, foundry explosions) are used to stress the importance of using proper methods when in a general shop. An excellent program for technology/vocational courses. #393945DV-TY3 \$109.95: DVD

Metalworking Safety

Metalworking is a broad field of study that encompasses several large industries. This informative video demonstrates the kind of precautions that should be taken when working with metals. Sheet metal work, soldering, foundry work, and forging are covered, along with handling steel beams at a construction site. Footage of fatal accidents and testimonials from steelworkers reinforce the importance of safety. This video should be viewed by anyone studying technology or any metal-working trade. #393946DV-TY3 \$109.95: DVD

Auto Shop Safety

Grades 9-Coll/Univ 2008 21 min

A Shopware Production

Reinforcing concepts with helpful animation, this video provides crucial knowledge about accidents that can occur in automotive repair shops. The best ways to prevent them, and the smartest and safest steps to take when they happen, are explained. The video covers all major shop areas, including the stall, grease rack, front end rack, tool room, and classroom. Running engines, open fuel lines, welding tools, moving cars, cars on lifts or jacks, and other shop hazards are illustrated, with detailed information on avoiding fires, explosions, asphyxiation, chemical burns, electric shock, and impact injuries. Hybrid vehicle technology is also explored. #010828DV-TY3 \$109.95: DVD



Welding Processes and Fundamentals Series

NEW!



Grades 9-Adult 2012 23-28 min each

A Shopware Production

Whether the industry is car-making, airplane manufacturing, or even rocket science, few things are more important than a quality weld. This four-part series combines engaging videography, no-nonsense explanations, and eye-catching graphics as it introduces viewers to the most common welding processes.

Shielded Metal Arc Welding (SMAW)

Often referred to as “stick welding,” SMAW has been used for decades to weld most metals and alloys. This video helps students learn the basics of the SMAW method, in which the electrode is consumable and becomes part of the weld. Identifying critical system components, the video explains different power types and power levels and includes a discussion of DCRP, DCSP, and AC modes. It then shows how to choose the correct welding rod, make sure that all equipment and working conditions meet professional safety standards, set up the system to begin work, correctly lay a bead, and read or inspect a bead. A segment on advanced techniques looks at several types of joints—edge, corner, lap, and tee joints as well as various butt joints—in addition to root, fill, and cap passes. Solving the problem of arc blow is also covered.

#394308DV-TY3 \$109.95: DVD, resource guide

Gas Tungsten Arc Welding (GTAW)

This video shows students how to properly and safely apply GTAW techniques. Pointing out tungsten’s high melting temperature (the highest of any metal) and the general advantages of GTAW, the video explains AC or DC power source options as well as other system components, including the torch, foot switch, shielding gas, and ground clamp. Viewers learn how to select and prepare the right electrode (an AWS chart is illustrated), how to ensure safe working conditions, and how to set up the GTAW system for quality welds. An advanced segment covers joint types from butt to tee and helps troubleshoot problems like excessive tungsten wear, tungsten spitting, a porous weld, and an unstable arc.

#394309DV-TY3 \$109.95: DVD, resource guide

Gas Metal Arc Welding (GMAW)

Also referred to as “MIG” (metal inert gas) welding, GMAW creates an arc with a solid wire fed through a MIG gun and melted to form a weld. This video guides students through the basics of gas metal arc welding, which is often used in automotive, structural, and production manufacturing. Helping students identify the correct duty cycle for the job at hand, the video explains the function and specifications of the electrode or “filler wire” as well as the other GMAW tool components. Safety, transfer modes, general set-up procedures, laying and reading beads, and other topics are featured. A troubleshooting segment helps deal with problems like an erratic puddle, excessive spatter, porosity, poor penetration, and excessive penetration, with advanced GMAW techniques also explored.

#394310DV-TY3 \$109.95: DVD, resource guide

Oxy-fuel and Plasma Cutting

This video serves as a basic guide to two popular heat-based cutting methods: oxy-fuel and plasma. Beginning with an overview of safety procedures, the video shows how to set up an oxy-acetylene system and demonstrates correct coupling distance, travel speed, torch angle, machine finishing, and other aspects of handheld cutting. Additional fuel choices are listed, too. The plasma segment includes a basic definition of what plasma is and how it is able to cut. Viewers learn the fine points of setting up and cutting with a plasma system and are given numerous tips and guidelines, from one- and two-hand torch manipulation to troubleshooting various problems.

#394311DV-TY3 \$109.95: DVD, resource guide

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Understanding Electronics Series



Grades 9-Adult 2008 20 min ea Films Media Group

Using case studies, first-rate technical expertise, and high-energy video, this six-part series helps develop hands-on knowledge and conceptual understanding in a variety of electronics fields. Viewers will learn about cutting-edge applications in health care, communications, manufacturing, automotive design, and environmental studies, while an additional episode highlights the design and construction of printed circuit boards.

Health Care Applications: Electronics in Medical Imaging

#394173DV-TY3 \$109.95: DVD

Communications: Wireless and Fiber Optics

#394174DV-TY3 \$109.95: DVD

Industry Applications: Two Electronics Case Studies

#394175DV-TY3 \$109.95: DVD

Transport: The Electronic Future

#394176DV-TY3 \$109.95: DVD

Environmental Applications: Electronics and Climate Studies

#394177DV-TY3 \$109.95: DVD

Printed Circuit Boards: Uses, Design, and Manufacture

#394178DV-TY3 \$109.95: DVD

GREEN-ROVATING SERIES

Home Renovations for a Sustainable World

Grades 9-Coll/Univ 2010 38-42 min ea Films Media Group

Spotlighting the best practices, technologies, and materials available to residential remodelers and builders, this four-part series shows how existing homes can be transformed to improve energy efficiency, eco-friendliness, livability, and sustainability while enhancing the health and well-being of their occupants. Remodeler and builder Robert Post accompanies leading designers, builders, landscape architects, and other practicing green professionals to working jobsites where they discuss and illustrate the practical application of green principles to every aspect of remodeling and renovation.

Home Performance: The First Step to Green

This video takes viewers through a home performance audit and shows how insights into the thermal envelope, energy footprint, and structural soundness can guide a remodeler and homeowner through the first steps toward creating a greener home. An overview of high-efficiency HVAC and geothermal technologies is also included.

#393915DV-TY3 \$109.95: DVD

Green Power, Clean Choices

Whether it's solar technologies, wind, or other renewable power sources, today's remodelers need to understand the basics of green power so they can guide clients toward smarter choices and then integrate these technologies into a home. Green Power, Clean Choices provides a fundamental understanding of how these technologies work.

#393916DV-TY3 \$109.95: DVD

Sustainable Landscaping: Growing a Greener Home

Over the course of this video, viewers will learn how a green approach to landscaping can reduce the amount of energy needed to heat and cool a house. The connection between the outdoor habitat and the home as a living space, the proper management of rainwater and runoff, the value of native plants, and the benefits of green roofs are also explored.

#393917DV-TY3 \$109.95: DVD

Thinking Green, Building Smart

This video explores the thought process at the core of green architectural design and construction as it takes viewers behind the scenes of an architectural firm specializing in sustainable design, a green construction business, and a supplier of eco-friendly building materials.

#393918DV-TY3 \$109.95: DVD



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Tools of the Trades Series

Grades 9-Coll/Univ 2008 19-32 min ea A Shopware Production

"A worker is only as good as his or her tools." This six-part series inventories basic trade-specific gear while giving viewers a glimpse of what it's like to be a plumber, a carpenter, a mason, a welder, an electrician, or an automotive technician. Tool use is demonstrated within the context of real-world applications; safety considerations and code concerns are flagged. A comprehensive overview of popular—and profitable!—trades. Viewable/printable instructor's guides are available online.

Inside the Plumber's Toolbox

From plungers, to pipe wrenches, to Teflon tape, this program introduces each common tool of the plumbing trade with a brief demonstration of its proper use. Four major types of piping and tubing—steel, copper, plastic, and cast iron—are described as well.

#010775DV-TY3 \$109.95: DVD

Inside the Carpenter's Toolbox

Takes a look at the tools and construction materials such as manufactured wood products, that carpenters depend on every day.

#010779DV-TY3 \$109.95: DVD

Inside the Welder's Toolbox

Shows viewers the safe way to work with fire, gas, and molten metal as it profiles the tools used by welders to perform a variety of tasks with OFW, GMAW, GTAW, and SMAW.

#010787DV-TY3 \$109.95: DVD

Inside the Mason's Toolbox

Viewers will learn about commonly used masonry tools; the attributes of brick, block, tile, stone, cast concrete, and mortar mixes; fasteners, wall ties, and mortar joint reinforcements; and estimating material amounts.

#010780DV-TY3 \$109.95: DVD

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Inside the Automotive Technician's Toolbox

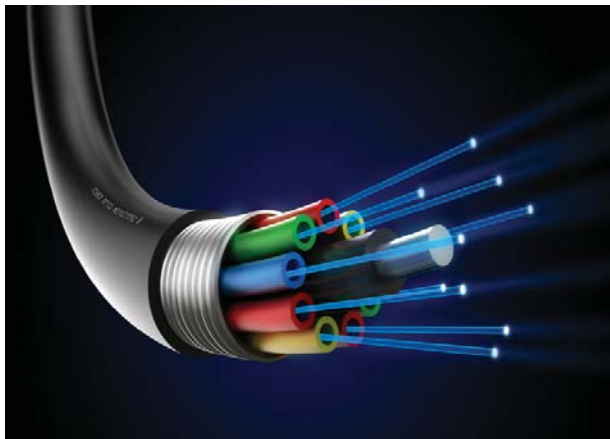
Focusing on both conventional and hybrid vehicles, this program examines the systems that make them run and the tools that keep them running. All manner of personal hand tools and shared shop tools are discussed, along with high-tech diagnostic instruments.

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See page 11 for details.



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