

GOODHEART-WILCOX PUBLISHER QUESTIONNAIRE

Course: Automotive Maintenance and Light Repair (9504100)

Title: *Modern Automotive Technology*, Edition: 8th

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Author: Duffy

Grade Level: 9 - 12

Authors & Credentials: List full name of author(s), with major or senior author listed first. Briefly provide credentials for each author.

James E. Duffy has devoted much of his professional life to developing educational materials that help students understand vocational and technical subjects. Mr. Duffy earned a Bachelor of Science degree in Industrial Technology from Indiana State University. He was an automotive technology instructor at Brandon High School in Brandon, Florida, and at Hillsborough Adult Education Center in Tampa, Florida. After teaching for several years, Mr. Duffy became a technical editor for a leading career and technical education publisher, and he eventually authored several successful automotive technology textbooks. In addition to *Modern Automotive Technology*, Mr. Duffy's books include *Auto Electricity and Electronics*, *Auto Engine Repair*, *Automatic Transmissions and Transaxles*, and *Manual Drive Trains and Axles*.

Students: Describe the type(s) of students for which this submission is intended.

Modern Automotive Technology is a valuable resource for students preparing for a career in automotive technology, as well as those interested in the operation, construction, troubleshooting, and repair of automobiles and light trucks. Students can also use this comprehensive textbook when preparing for the ASE certification tests.

1. IDENTIFY AND DESCRIBE THE COMPONENTS OF THE MAJOR TOOL. The Major Tool is comprised of the items necessary to meet the standards and requirements of the category for which it is designed and submitted. As part of this section, include a description of the educational approach of the submission.

Educational Approach (The information provided here will be used in the instructional materials catalog in the case of adoption of the program. Please limit your response to 500 words or less.)

Modern Automotive Technology is an easy-to-understand, up-to-date textbook summarizing the operation and repair of all vehicle makes and models. This textbook uses a building-block approach that starts with simple principles and progresses gradually to more complex subjects. Short sentences, concise definitions, and thousands of color illustrations will help students learn quickly and easily. Color is used extensively throughout this textbook to enhance the educational value of the artwork and highlight important information. Various type styles are used throughout this text to emphasize words, identify important technical terms, and highlight figure references. Each major automotive system is covered in two or more chapters. The first chapter explains the construction and operation of a specific system. The second chapter expands on this by discussing diagnosis, service, and repair of the same system. Each chapter of *Modern Automotive Technology* opens with a list of learning objectives. These objectives identify the topics covered and goals to be achieved in the chapter. Troubleshooting charts are included at the end of most service chapters. These charts will help students diagnose and repair common problems. Most service chapters also include Diagnostic case studies, which are designed to help reinforce logical troubleshooting techniques. Each case study presents a common automotive problem, details the procedure for pinpointing the source of the trouble, and provides an overview of the necessary repairs. A summary located at the end of each chapter reinforces key learning objectives. A list of technical terms is also included at the end of each chapter to help ensure vocabulary mastery. Conventional review questions, as well as a separate section of ASE-type questions, are presented at the end of each chapter. These questions are designed to reinforce important topics covered in the chapter. They will also help prepare students for the types of questions encountered on the ASE certification tests. Each chapter closes with a number of activities. These activities are automotive-related exercises that emphasize math and communication skills, as well as improve performance on the job.

Major Tool - Student Components Describe each of the components, including a format description.

1. *Modern Automotive Technology* student textbook (printed, hard cover, full-color textbook with 1,918 pages).
2. Online Student Center for *Modern Automotive Technology* provides the foundation of instruction and learning for digital and blended classrooms. An easy-to-manage, shared classroom subscription makes it a hassle-free solution for both students and instructors. An online student text and workbook, along with rich supplemental content, brings digital learning

to the classroom. All instructional materials are found on a convenient online bookshelf that is accessible at home, at school, or on the go.

3. *Modern Automotive Technology* Bundle combines both a printed text and an Online Student Center. All student support materials are available online in a six-year classroom subscription.

Major Tool - Teacher Components Describe each of the components, including a format description.

(N/A - see Ancillary Materials - Teacher Components below)

2. IDENTIFY AND DESCRIBE THE ANCILLARY MATERIALS. Briefly describe the ancillary materials and their relationship to the major tool.

Ancillary Materials - Student Components Describe each of the components, including a format description.

(N/A - see Ancillary Materials - Teacher Components below)

Ancillary Materials - Teacher Components Describe each of the components, including a format description.

Online Instructor Resources include Answer Keys, Lesson Plans, Instructor's Presentations for PowerPoint®, ExamView® Assessment Suite, and more.

3. HOW MUCH INSTRUCTIONAL TIME IS NEEDED FOR THE SUCCESSFUL IMPLEMENTATION OF THIS PROGRAM? Identify and explain the suggested instructional time for this submission. If a series, state the suggested time for each level. The goal is to determine whether the amount of content is suitable to the length of the course for which it is submitted.

Program planning guides are provided for *Modern Automotive Technology* to suggest ways to schedule the chapters for different course calendars, including 12-week trimester and 18-week semester courses.

4. WHAT PROFESSIONAL DEVELOPMENT IS AVAILABLE? Describe the ongoing learning opportunities available to teachers and other education personnel that will be delivered through their schools and districts as well as the training/in-service available directly from the publisher for successful implementation of the program. Also provide details of the type of training/in-service available and how it may be obtained. (The information provided here will be used in the instructional materials catalog in the case of adoption of the program.)

In-service/staff development training is available during the life of the adoption in various formats upon request. Training support documentation can be provided in print or webinar and is available at no cost for the hours needed. Please contact G-W Educational Consultant Irene deVarona (877.327.4209 phone, idevarona@g-w.com e-mail) to arrange mutually-agreed upon in-service dates and formats.

5. WHAT HARDWARE/EQUIPMENT IS REQUIRED? Briefly list and describe the hardware/equipment needed to implement the submission in the classroom. REMEMBER: Florida law does not allow hardware/equipment to be included on the bid! However, schools and districts must be made aware of the hardware/equipment needed to fully implement this program.

For Online Materials: • Operating System: Microsoft Windows XP/VISTA/7/8, Mac OS 10.4 or later, or Mac iOS 4.3 or later. • Minimum Hardware: 600 MHz processor; 128 MB RAM; monitor or touch screen display. • Online Access: Internet or Wi-Fi connection is required; cookies and JavaScript enabled for full functionality. • Recommended Web browsers: Firefox, Internet Explorer, Chrome, or Safari.

6. WHAT LICENSING POLICIES AND/OR AGREEMENTS APPLY? If software is being submitted, please attach a copy of the company's licensing policies and/or agreements.

Not Applicable

7. WHAT STATES HAVE ADOPTED THE SUBMISSION? List some of the states in which this submission is currently adopted.

Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, New Mexico, North Carolina, South Carolina, Tennessee, and Texas.

8. LIST THE FLORIDA DISTRICTS IN WHICH THIS PROGRAM HAS BEEN PILOTED IN THE LAST EIGHTEEN MONTHS.

Not Applicable