

**FIRE APPARATUS TECHNICIAN  
STUDY GUIDE**

A written examination for the class of **FIRE APPARATUS TECHNICIAN** to be administered in **BATON ROUGE** on **MARCH 10, 2016**, will consist of approximately **100** multiple-choice questions. The examination will test your knowledge in the following subject areas:

<b>SUBJECT AREA/KNOWLEDGE</b>	<b>APPROXIMATE % OF EXAM</b>
<p><b>EQUIPMENT AND APPARATUS REPAIR</b></p> <p>Knowledge of the tools and equipment necessary to inspect and make minor repairs to portable equipment, small power tools and fire apparatus.</p>	11.0%
<p><b>STEERING, SUSPENSION, AND BRAKE SYSTEMS</b></p> <p>Knowledge of steering, suspension, and brake systems sufficient to perform maintenance and repair when needed.</p>	11.0%
<p><b>AIR CONDITIONING/COOLING SYSTEM</b></p> <p>Knowledge of air conditioning and cooling systems sufficient to perform maintenance and repair when needed.</p>	5.0%
<p><b>DRIVE TRAIN/LUBRICATING/ELECTRICAL/EMISSION/FUEL SYSTEMS</b></p> <p>Knowledge of drive train, lubricating, electrical, emissions, and fuel systems sufficient to perform maintenance, repairs or adjustments to the system when needed.</p>	26.0%
<p><b>ENGINE MECHANICS</b></p> <p>Knowledge of gasoline and diesel engines sufficient to perform diagnosis of mechanical problems and to perform maintenance and repair.</p>	10.0%
<p><b>GENERAL AUTOMOTIVE MAINTENANCE, REPAIRS, INSTRUMENTS &amp; TOOLS</b></p> <p>Knowledge of automotive equipment sufficient to troubleshoot, diagnose and repair malfunctioning components, including the use and care of instruments and tools.</p>	16.0%

SUBJECT AREA/KNOWLEDGE	APPROXIMATE % OF EXAM
<b>INSPECTION, MAINTENANCE, TESTING, &amp; REPAIR OF PORTABLE EQUIPMENT</b>  Knowledge of portable equipment, tools, and accessories commonly carried on fire apparatus sufficient to perform maintenance and repairs.	10.0%
<b>MAINTENANCE, TESTING, &amp; REPAIR OF APPARATUS &amp; EQUIPMENT</b>  Knowledge of fire apparatus sufficient to perform maintenance and repairs, including rotary gear, pumps, water delivery systems, foam systems, aerial ladders, and hydraulic systems.	11.0%

### REFERENCE LIST

While the entire list of reference material will be useful to you in your preparation for the upcoming examination, the **majority** of test questions are sourced from those references listed under the Primary List.

### PRIMARY REFERENCE MATERIAL

**MODERN AUTOMOTIVE TECHNOLOGY**, James E. Duffy, The Goodheart-Willcox Co., Inc., 2004.

The local civil service board should make this study guide available to all applicants in whatever manner the board deems appropriate.

While there are no provisions requiring this office to provide study guides for any competitive or promotional examinations, such material will be provided as a service to assist applicants in preparing for an examination. The State Examiner's office has no control whatsoever over the local availability of reference material (mentioned in the study guides), nor do we feel constrained to limit examination questions to only that material which is available locally. Examination content, weighting of subject areas, and length of examination, may vary with each administration of an examination to reflect any updated job analysis information. Percentages and numerical estimations are provided as approximations.