

**THE GASOLINE
AUTOMOBILE;
ENGINEERING
EDUCATION SERIES**

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The Gasoline Automobile; Enginnering Education Series by George W. Hobbs & Ben G. Elliot

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GEORGE W. HOBBS & BEN G. ELLIOT

**THE GASOLINE
AUTOMOBILE;
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THE GASOLINE AUTOMOBILE

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1. The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes that proper record-keeping is essential for transparency and accountability, particularly in the context of public administration and government operations. The text notes that without reliable records, it becomes difficult to track the flow of funds, assess the performance of various departments, and ensure that resources are being used effectively and efficiently.

2. The second part of the document addresses the challenges associated with data collection and analysis. It highlights that while modern technology offers powerful tools for gathering and processing large amounts of information, the quality and consistency of the data can vary significantly. The text suggests that organizations should invest in training and infrastructure to ensure that data is collected systematically and analyzed using standardized methods. This approach helps to minimize errors and provides a more accurate picture of the underlying trends and patterns.

3. The third part of the document focuses on the role of communication in organizational success. It argues that clear and consistent communication is vital for aligning the goals and efforts of all team members. The text recommends that leaders should establish open channels of communication, encourage the exchange of ideas, and provide regular feedback. Additionally, it stresses the importance of documenting key decisions and actions to ensure that everyone is on the same page and working towards common objectives.

4. The fourth part of the document discusses the impact of external factors on organizational performance. It notes that organizations often face unpredictable changes in the market, regulatory environment, and social landscape. The text suggests that organizations should adopt a proactive and flexible mindset, regularly monitoring external trends and adjusting their strategies accordingly. This approach allows organizations to anticipate potential risks and opportunities, enabling them to respond more effectively to a rapidly changing environment.

5. The fifth and final part of the document concludes by emphasizing the need for continuous improvement and innovation. It states that organizations should not be satisfied with the status quo but should actively seek ways to enhance their processes, products, and services. The text encourages a culture of learning and experimentation, where employees are empowered to propose and implement new ideas. By fostering a spirit of innovation, organizations can stay competitive and drive long-term growth and success.

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Geo. B. Selden in his "Benzine Buggy."



The present day motor car.

(Frontispiece)

ENGINEERING EDUCATION SERIES

THE GASOLINE AUTOMOBILE

PREPARED IN THE
EXTENSION DIVISION OF
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PREFACE

The purpose of this book is admirably expressed in the following quotation taken from the Buick instruction book: "To derive the greatest amount of satisfaction and pleasure from the use of his car the driver should have a complete understanding of the mechanical principles underlying its operation. Merely knowing which pedal to press or which lever to pull is not enough. The really competent driver should understand what happens in the various parts of the car's mechanism when he presses the pedal or pulls the lever. He should know the cause as well as the result."

When we consider the complexity of modern automobiles from a mechanical standpoint, with the duties that are required of them, together with the fact that the great majority of them are operated by men with little or no experience in the handling of machinery, the automobile stands as one of the most remarkable machines that the ingenuity of man has ever produced. The operating expense of the automobile has already assumed a large place in the budget of the American people. Although it is so built that the owner may secure good service from his automobile with very little knowledge of its construction, still it is evident that an intimate acquaintance with its details should enable him to secure better service at less expense and at the same time to prolong the useful life of the car.

It is with the hope of increasing the pleasure of automobile ownership and reducing the trouble and expense of operation that this book is offered. It is planned primarily for use in the University Extension work in Wisconsin, for the instruction of those who drive, repair, sell, or otherwise have to do with motor cars. It is largely the outgrowth of a series of lectures on the subject which were given in twenty-three cities of Wisconsin during the past winter.

The thanks of the authors are especially due to Mr. M. E. Faber of the C. A. Shaler Co. for assistance in preparing the section dealing with tire troubles, to Prof. Earle B. Norris for much of the chapter on Engines and for editing the manuscript and reading the proof, and to the many manufacturers who have liberally assisted in the preparation of the work by supplying their cuts and other material.

G. W. H.

MADISON, WIS.,
Sept. 15, 1915.

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