



## Introduction (5 minutes)

*Read the introduction and answer the following questions:*

1. What is the primary function of an alternator in a vehicle?

2. What are the key components of an alternator?

## Alternator Fundamentals (15 minutes)

*Read the section on alternator fundamentals and answer the following questions:*

1. What is the primary function of the rotor in an alternator?

2. What is the purpose of the voltage regulator in an alternator?

## Common Alternator Faults (15 minutes)

*Read the section on common alternator faults and answer the following questions:*

1. What are the common symptoms of a faulty alternator?

2. What is the most common cause of alternator failure?

## Troubleshooting Techniques (20 minutes)

*Read the section on troubleshooting techniques and answer the following questions:*

1. What tool is used to measure the voltage output of an alternator?

2. What is the first step in troubleshooting an alternator fault?

## Case Study (20 minutes)

*Read the case study and answer the following questions:*

1. What is the most likely cause of the problem?

2. What tool would you use to diagnose the problem?

## Conclusion (10 minutes)

*Reflect on what you have learned and answer the following questions:*

1. What was the most surprising thing you learned about alternator faults?

2. How will this learning change your actions in the future?

## Additional Resources (10 minutes)

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*Explore the additional resources and answer the following questions:*

1. What online resources can you use to learn more about alternator faults?

2. What hands-on activities can you do to practice troubleshooting alternator faults?

