

## AUTOMOTIVE MECHANICS TECHNOLOGY LEVEL 1

**Teacher** Mr. John Dennison

**Voice** 380-0200 ext 110

**Room #** 110

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### **Course Description:**

This program trains students to perform a variety of automotive services. These include engine tune-up, the electrical system, fuel system, brakes, vehicle maintenance, alignment and tire service, engine rebuilding, heating and air conditioning, emissions system, exhaust and drive train service.

### **Course Objective:**

Automotive I students will concentrate on safety, trade awareness, orientation and beginning diagnosis and repair. Students in this course will be taught entry level skills needed to be successful in the automotive repair business and will include a variety of services such as, engine cooling systems diagnosis and repair, suspension and steering, brakes, electrical systems battery diagnosis and repair, starting and charging system diagnosis and repair, and engine performance fuel, air induction and exhaust systems diagnosis and repair. Students will comply with personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment; proper ventilation; and handling, storage and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulations.

### **Course Requirements:**

Students will follow a curriculum based on the guidelines of 'The National Automotive Technicians Education Foundation' (NATEF). This curriculum is presented in a competency format which the student will adhere to, as required by NATEF.

### **Criteria for Assessing Student Performance:**

Students will be graded on projects, homework, quiz and test grades, in accordance with NATEF standards, for certification

Shop and Task Work, 70 %

Homework, Quizzes and Tests 30%

*\*\*Note: Mid-term and Final Exams are independently weighted*

New Jersey Student Learning Standards in English Language Arts and Mathematics and 8.1 and 8.2 Technology Standards; 21st Century Life and Careers Standards that include: Career Ready Practices; 9.1 Personal Financial Literacy; 9.2 Career Awareness, Exploration, and Preparation; 9.3 Career and Technical Education

**Textbooks, Related Readings:** Automotive service, inspection, maintenance and repair and lab manual, technology research, articles and related trade materials.

## **AUTOMOTIVE MECHANICS TECHNOLOGY LEVEL 2**

**Teacher** Mr. John Dennison

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**Room #** 110

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### **Course Description:**

This course trains students to perform a variety of automotive services. These include engine tune-up, the electrical system, fuel system, brakes, vehicle maintenance, alignment and tire service, engine rebuilding, heating and air conditioning, emissions system, exhaust and drive train service.

### **Course Objective:**

Automotive 2 students will advance to engine repair, diagnosis, assembly and disassembly in select systems. Students in this course will be taught entry level skills needed to be successful in the automotive repair business as well as skills needed to be successful in post-secondary educational programs. Students will be taught a variety of services to include engine repair diagnosis, removal and reinstallation, cylinder head, valve train and engine block assembly diagnosis and repair, electrical /electronic systems, heating, ventilation, and air conditioning diagnosis and repair, and engine performance engine diagnosis. Students will comply with personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment; proper ventilation; and handling, storage and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulations.

### **Course Requirements:**

Students will follow a curriculum based on the guidelines of 'The National Automotive Technicians Education Foundation' (NATEF). This curriculum is presented in a competency format which the student will adhere to, as required by NATEF.

### **Criteria for Assessing Student Performance:**

Students will be graded on projects, homework, quiz and test grades, in accordance with NATEF standards, for certification

Shop and Task Work, 70 %

Homework, Quizzes and Tests 30%

*\*\*Note: Mid-term and Final Exams are independently weighted*

New Jersey Student Learning Standards in English Language Arts and Mathematics and 8.1 and 8.2 Technology Standards; 21st Century Life and Careers Standards that include: Career Ready Practices; 9.1 Personal Financial Literacy; 9.2 Career Awareness, Exploration, and Preparation; 9.3 Career and Technical Education

**Textbooks, Related Readings:** Automotive service, inspection, maintenance and repair and lab manual, technology research, articles and related trade materials.

## **AUTOMOTIVE MECHANICS TECHNOLOGY LEVEL 3**

**Teacher** Mr. John Dennison

**Voice** 380-0200 ext 110

**Room #** 110

**E-mail\*** jdennison@capemaytech.com

**Course Description:** This course trains students to perform a variety of automotive services. These include engine tune-up, the electrical system, fuel system, brakes, vehicle maintenance, alignment and tire service, engine rebuilding, heating and air conditioning, emissions system, exhaust and drive train service.

**Course Objective:** Automotive 3 students will advance to a variety of regulations, services and systems. Students in this course will be taught entry level skills needed to be successful in the automotive repair business as well as skills needed to be successful in post-secondary educational programs. Students will be taught a variety of services to include manual drive train and axles diagnosis and repairs, electrical systems diagnosis and repair, HVAC refrigerant recover, recycling and handling, engine performance ignition system diagnosis and repair and emissions control systems diagnosis and repair. Students will comply with personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment; proper ventilation; and handling, storage and disposal of chemicals/materials in accordance with local, state, and federal safety and environmental regulations. Students who complete the program will take an Industry credential test of ASE T1.

**Course Requirements:** Students will follow a curriculum based on the guidelines of 'The National Automotive Technicians Education Foundation' (NATEF). This curriculum is presented in a competency format which the student will adhere to, as required by NATEF.

### **Criteria for Assessing Student Performance:**

Students will be graded on projects, homework, quiz and test grades, in accordance with NATEF standards, for certification

Shop and Task Work, 70 %

Homework, Quizzes and Tests 30%

*\*\*Note: Mid-term and Final Exams are independently weighted*

New Jersey Student Learning Standards in English Language Arts and Mathematics and 8.1 and 8.2 Technology Standards; 21st Century Life and Careers Standards that include: Career Ready Practices; 9.1 Personal Financial Literacy; 9.2 Career Awareness, Exploration, and Preparation; 9.3 Career and Technical Education

**Textbooks, Related Readings:** Automotive service, inspection, maintenance and repair and lab manual, technology research, articles and related trade materials.