

## **AUTOMOTIVE SERVICE TECHNICIAN APPRENTICESHIP COURSE SUMMARIES**

### **COURSE ASA3400: BASIC TOOLS & MATERIALS**

Students develop knowledge, skills and attitudes to use workshop specialty hand tools, measuring tools and fasteners.

*Prerequisite:* ASA3900: Apprenticeship Safety

### **COURSE ASA3402: VEHICLE SERVICE INFORMATION**

Students develop the necessary knowledge, skills and attitudes to use electronic service information and scan tools in the servicing and repair of vehicles, and perform metal heating and cutting operations safely by using oxyacetylene equipment.

*Prerequisites:* ASA3900: Apprenticeship Safety; ASA3400: Basic Tools & Materials

### **COURSE ASA3405: ELECTRICAL PRINCIPLES**

Students develop the knowledge, skills and attitudes necessary to understand how electricity is created, stored and used to support the requirements of the automobile.

*Prerequisites:* ASA3900: Apprenticeship Safety; ASA3400: Basic Tools & Materials; ASA3402: Vehicle Service Information

### **COURSE ASA3410: ELECTRICAL CIRCUITS**

Students develop the knowledge, skills and attitudes necessary to service and repair electrical circuits.

*Prerequisites:* ASA3900: Apprenticeship Safety; ASA3400: Basic Tools & Materials; ASA3402: Vehicle Service Information; ASA3405: Electrical Principles

### **COURSE ASA3412: ELECTRICAL SERVICE**

Students develop the knowledge, skills and attitudes necessary to diagnose service and repair electrical systems, and develop an understanding of active and passive restraint systems.

*Prerequisites:* ASA3900: Apprenticeship Safety; ASA3400: Basic Tools & Materials; ASA3402: Vehicle Service Information; ASA3405: Electrical Principles; ASA3410: Electrical Circuits

### **COURSE ASA3415: FRAMES & UNDERCARRIAGE**

Students develop the knowledge, skills and attitudes necessary to service and maintain vehicle frames and suspension and steering linkage systems.

*Prerequisites:* ASA3900: Apprenticeship Safety; ASA3400: Basic Tools & Materials; ASA3402: Vehicle Service Information

### **COURSE ASA3420: STEERING SYSTEMS**

Students develop the knowledge, skills and attitudes necessary to service and repair electric assist and hydraulic assist steering systems.

*Prerequisites:* ASA3900: Apprenticeship Safety; ASA3400: Basic Tools & Materials; ASA3402: Vehicle Service Information

### **COURSE ASA3425: SUSPENSION SYSTEMS**

Students develop the knowledge, skills and attitudes necessary to service and repair suspension and steering systems.

*Prerequisites:* ASA3900: Apprenticeship Safety; ASA3400: Basic Tools & Materials; ASA3402: Vehicle Service Information; ASA3420: Steering Systems

### **COURSE ASA3430: ALIGNMENT PROCEDURES**

Students develop the knowledge, skills and attitudes necessary to service and repair electric assist and hydraulic assist steering systems.

***Prerequisites:** ASA3900: Apprenticeship Safety; ASA3400: Basic Tools & Materials; ASA3402: Vehicle Service Information; ASA3420: Steering Systems; ASA3425: Suspension Systems*

### **COURSE ASA3435: BRAKE FUNDAMENTALS**

Students develop the knowledge, skills and attitudes necessary to service and repair brake systems.

***Prerequisites:** ASA3900: Apprenticeship Safety; ASA3400: Basic Tools & Materials; ASA3402: Vehicle Service Information*

### **COURSE ASA3440: DISC & DRUM BRAKES**

Students develop the knowledge, skills and attitudes necessary to service and repair disc and drum brake systems.

***Prerequisites:** ASA3900: Apprenticeship Safety; ASA3400: Basic Tools & Materials; ASA3402: Vehicle Service Information; ASA3435: Brake Fundamentals*

### **COURSE ASA3445: BRAKE SYSTEM REPAIRS**

Students develop the knowledge, skills and attitudes necessary to service and repair power brake systems.

***Prerequisites:** ASA3900: Apprenticeship Safety; ASA3400: Basic Tools & Materials; ASA3402: Vehicle Service Information; ASA3435: Brake Fundamentals; ASA3440: Disc & Drum Brake Systems*

### **COURSE ASA3450: WHEELS & DRIVE LINES**

Students develop the knowledge, skills and attitudes necessary to service and maintain vehicle wheel hubs, tires and drive shafts.

***Prerequisites:** ASA3900: Apprenticeship Safety; ASA3400: Basic Tools & Materials; ASA3402: Vehicle Service Information*

### **COURSE ASA3452: MAINTENANCE & TRAILERS**

Students develop the knowledge, skills and attitudes necessary to diagnose service, and to complete basic vehicle maintenance and light trailer service and repairs.

***Prerequisites:** ASA3900: Apprenticeship Safety; ASA3400: Basic Tools & Materials; ASA3402: Vehicle Service Information*

### **COURSE ASA3455: ASA PRACTICUM A**

Students, on the work site, continue to develop and refine those competencies developed in related Career and Technology Studies (CTS) occupational areas, previous practicums and other experiences.

***Prerequisite:** None*

### **COURSE ASA3460: ASA PRACTICUM B**

Students, on the work site, continue to develop and refine those competencies developed in related Career and Technology Studies (CTS) occupational areas, previous practicums and other experiences.

***Prerequisite:** None*

**COURSE ASA3465: ASA PRACTICUM C**

Students, on the work site, continue to develop and refine those competencies developed in related Career and Technology Studies (CTS) occupational areas, previous practicums and other experiences.

*Prerequisite: None*

**COURSE ASA3470: ASA PRACTICUM D**

Students, on the work site, continue to develop and refine those competencies developed in related Career and Technology Studies (CTS) occupational areas, previous practicums and other experiences.

*Prerequisite: None*

**COURSE ASA3900: APPRENTICESHIP SAFETY**

Students develop knowledge, skills and attitudes in the practice of workshop health and safety, communication and career planning.

*Prerequisite: None*