# Ford ASSET Program Student Work Experience Record Book

## Cuyamaca College Automotive Technology AT-197

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| Student Name: |
| Sponsoring Dealership: |
| Supervisor: Phone Number: Email Address: |
| Ford ASSET Program Coordinator: Brad McCombs Phones: 619 701-1226 C 619 660-4267 Office<br>Email: brad.mccombs@gcccd.edu |
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**STUDENT ATTENDANCE SUMMARY**

1. Fill in the number of hours you worked each day.
2. Note any partial days: L = Late A = Absent LE = Left Early
3. Have your supervisor or lead technician initial this form at the end of each week.
4. Always notify your supervisor and instructor of any planned or unplanned absence.

| Week of Date | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Supervisor OK Initial |
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### Work Area: Electrical Systems

- Demonstrate the Symptom to System to Component to Cause (SSCC) diagnostic process relating to electrical concerns.
- Use tools and equipment associated with basic electrical diagnosis and repair.
- Understand and interpret wiring diagrams using Ford diagnostic charts and descriptions.
- Diagnosis and repair a basic electrical concern.

### Work Area: Brake Systems

- Demonstrate the Symptom to System to Component to Cause (SSCC) diagnostic process and perform preliminary brake system checks, diagnosis, and repairs.
- Identify common customer concerns related to the brake systems.
- Perform brake system diagnostic tests and interpret the results.
- Inspect the brake hydraulic system for leaks and proper operation.
- Assist the hydraulic bleeding of a brake system.
- Inspect, measure, and service brake drums, shoes, discs, pads, and brake calipers.
- Perform diagnosis and service on a Ford Antilock Brake system.
- Perform diagnosis and service on a Ford Traction Control system.
- Perform diagnosis and service on a Ford Advance Track System.

### Work Area: Electronic Systems

- Demonstrate the Symptom to System to Component to Cause (SSCC) diagnostic process and perform diagnosis and repair to electronic systems.
- Demonstrate knowledge of special tools and equipment used to perform diagnosis and repair of electronic systems.
- Describe service publications, special service messages, Oasis, and the PTS website to assist electronic diagnosis.
- Perform diagnostic test procedures.

### Work Area: Climate Control

- Retrieve DTCs from the control head, powertrain control module, and climate control module.
- Diagnose refrigeration, heating, air management, and control subsystem concerns.
- Diagnose powertrain control concerns related to the compressor clutch and engine cooling fan circuits.
- Use special tools to perform A/C and heating related diagnosis and repair.
- Perform procedures related to refrigeration, heating, air management, and control systems and subsystems.

**Work Area: Steering and Suspension**

- Properly inspect and test steering and suspension system components.
- Correctly inspect suspension and measure ball joint, tie rod, and control arm bushing deflection.
- Correctly diagnose a fault in the Tire Monitoring System (TPMS).
- Diagnose and repair a problem in the Electronic Power Assist Steering system (EPAS).
- Diagnose and repair a fault in the Continuously Controlled Damping (CCD) suspension.
- Perform and pump flow and pressure test using a power steering analyzer.
- Diagnose and correct excessive tire wear and pull concerns using an alignment machine.
- Diagnose engine, driveline, and wheel vibration concerns using a Mastertech MTS 4000 NVH Analyzer.
- Calculate engine frequencies, engine accessory frequencies, drive shaft frequencies, and wheel and tire frequencies.
- Diagnose a noise concern using the ChassisEAR.
- Diagnose and repair a tire vibration using a Balancer.

**Other Work Relate Areas: Describe: PDI, Vehicle Inspections, MLR, Other:**

**Student Goals for the 1rst Cooperative Work Experience Class Summer Fall 2015**

The student, dealership, and ASSET instructor have worked together to set the following student performance goals for the CO-OP quarter:

1. The student will assist in producing an additional_____ labor hours per week. During the first coop we strongly recommend that the student is supervised and works closely with a lead technician at all times. The student will track their progress in the logbook assuming that work is available.
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| Student: | Date: |
| Supervisor: | Date: |
| Instructor: | Date: |

Cuyamaca College Ford ASSET Program – Dealer Cooperative Training Record Book

| Date | Labor Time | Description of Concern | Description of Correction | Assisted or Independent |
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