

COURSE SYLLABUS

Course Title: AUMT 2366-271 Practicum – Auto/Automotive Mechanic/Technician (3:0:21)

Semester/Year: Fall 2017

Instructor: Gary Ufford

Office/Location: Lubbock Center, 3907 Ave. Q, Room 136B, Lubbock, TX. 79412

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Office Hours: Check posted hours after classes begin or by appointment.

SOUTH PLAINS COLLEGE IMPROVES EACH STUDENTS LIFE

I. GENERAL COURSE INFORMATION

- A. Course Description: (3:0:21)** This course gives students the practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. Note: The guided external experiences may be paid or unpaid. This course may be repeated if topics and learning outcomes vary. Semester Hours: 3 Lecture Hours: 0 Lab Hours: 21 Pre-requisite: AUMT 1201, AUMT 1407 with a “B” or higher, and consent of the instructor. Note: The guided external experiences may be paid or unpaid. This course may be repeated if topics and learning outcomes vary.
- B. Course Goals/Objectives:** As outlined in the learning plan, the student will master the theory, concepts, and skills involving the tools, materials, equipment, procedures, regulations, laws and interactions within and among political, economic, environmental, and legal systems associated with the workplace; demonstrate ethical behavior, safety practices, interpersonal and teamwork skills, appropriate verbal and written communications in the workplace.
- C. Course Competencies:** A = 100-90 B = 89-80 C = 79-70 F = 69 or below
Your grade is determined by the quality and quantity of the requirements you complete. A designated person at the facility will be in charge to monitor your attached course requirements.

- D. Academic Integrity.** It is the aim of the faculty of South Plains College to foster a spirit of complete honesty and a high standard of integrity. The attempt of any student to present as his own, any work which he has not honestly performed, is regarded by the faculty and administration as a most serious offense and renders the offender liable to serious consequences, possibly suspension. For further information concerning Cheating and Plagiarism, read the section on Academic Integrity in the SPC General Catalog. **If you have a question as to whether you may work with other students on any assignment, ASK YOUR INSTRUCTOR. On some assignments working with others is encouraged.**
- E. SCANS and Foundation Skills.** Specific SCANS competencies and foundation skills applicable to this course are listed adjacent to each objective in the course objective table. They include: Foundation Skills (F): 1,2,3,4,5,6,8,9,10,11,12.
Competencies (C): 5,6,7,15,16,18,19,20.
A complete list of SCANS competencies and foundation skills is attached at the end of this syllabus.
- F. Verification of Workplace Competencies-Technical Education Division.** The learning outcomes of this course will prepare the student to meet the employment competencies measured by the industry. In addition the student will also be prepared to take the ASE certification test.

II SPECIFIC COURSE/INSTRUCTOR REQUIREMENTS

- A. Textbook & Other Required Materials:**
1. No textbook required for this course.
 2. If the facility requires you to have your own basic hand tools you will be required to purchase them
 3. The facility will inform you of any other requirements.
- B. Class Attendance Policy:** A student is expected to be at the assigned facility 21 hours a week for 16 weeks or 34 hours a week for 10 weeks, no exceptions. Lack of attendance will result in automatic withdrawal from the Practicum Course. You are required to be at the college for scheduled meetings.
- C. Assignment Policy:** See attached forms for any assignment. You are required to complete the tasks assigned to you by your instructor.

D. Grading Policy: Procedure and/or Methods of Evaluation: There will be no formal written exams for this course.

See attached form for the areas you will be evaluated in. You are expected to complete all tasks on the list and in a competent manner.

E. Special Requirements: A student's conduct is expected to follow the guidelines stated in the college catalogue, student handbook and guidelines of the facility, any deviation will result in immediate disciplinary action.

The student is responsible for following administrative policies of the Facility, as well as all state and federal guidelines required in the industry.

The student is responsible for maintaining any or all certifications or licenses required by the Facility. (i.e. ASE Certifications or state Inspection)

The student is responsible for reporting to the Facility on time and following all established regulations of the Facility.

The student is responsible for his/her own transportation.

The student will not submit for publication, any material relating to the Automotive Technology Practicum education experience without approval of the Facility and the College.

The student is responsible for maintaining a clean driving record.

I have read and understand this syllabus and agree to comply with the requirements set forth within this Practicum Course.

Student

Date

SOUTH PLAINS COLLEGE
 Automotive Technology Practicum Evaluation
 Rating Code Legend
Electrical Systems 3

1. Incompetent - needs more training.
2. Competent, but lacks speed.
3. Competent and has good speed, performs quality repairs with some comebacks.
4. Performs high quality repairs, with none, or very few comebacks, and speed is close to the Flat Rate Time.

1. Accurately diagnose a failed battery on vehicles assigned.	1	2	3	4
2. Accurately diagnose the starting system on vehicles assigned.	1	2	3	4
3. Accurately diagnose the charging system on vehicles assigned.	1	2	3	4
4. Accurately diagnose an electrical malfunction within a power window circuit on vehicles assigned.	1	2	3	4
5. Accurately diagnose, using service information flow charts, the malfunction within an electrical circuit. (Example: open circuit or short circuit.)	1	2	3	4
6. Properly replace the battery on vehicles assigned.	1	2	3	4
7. Properly replace the starter on vehicles assigned or repair circuit.	1	2	3	4
8. Properly replace the alternator on vehicles assigned or repair circuit.	1	2	3	4
9. Properly repair a power window circuit.	1	2	3	4
10. Properly repair the malfunction in an electrical circuit.(Example open circuit, short circuit, loose connections, etc.)	1	2	3	4

Comments: _____

SOUTH PLAINS COLLEGE
 Automotive Technology Practicum Evaluation
 Rating Code Legend
Electrical Systems 1

1. Incompetent - needs more training.
2. Competent, but lacks speed.
3. Competent and has good speed, performs quality repairs with some comebacks.
4. Performs high quality repairs, with none, or very few comebacks, and speed is close to the Flat Rate Time.

1. Accurately diagnose an electrical malfunction within a power window circuit.	1	2	3	4
2. Accurately diagnose an electrical malfunction within a power door lock circuit	1	2	3	4
3. Accurately diagnose an electrical malfunction within a blower control circuit.	1	2	3	4
4. Accurately diagnose an electrical malfunction within an electric cooling fan circuit.	1	2	3	4
5. Accurately diagnose an electrical malfunction within an A/C compressor control or control head circuit.	1	2	3	4
6. Properly repair a power window circuit	1	2	3	4
7. Properly repair a power door lock circuit	1	2	3	4
8. Properly repair a blower control circuit.	1	2	3	4
9. Properly repair an electric cooling fan circuit.	1	2	3	4
10. Properly repair an A/C compressor control or control head circuit.	1	2	3	4

Comments: _____

SOUTH PLAINS COLLEGE
 Automotive Technology Practicum Evaluation
 Rating Code Legend
HVAC

1. Incompetent - needs more training.
2. Competent, but lacks speed.
3. Competent and has good speed, performs quality repairs with some comebacks.
4. Performs high quality repairs, with none, or very few comebacks, and speed is close to the Flat Rate Time.

1. Accurately performance test A/C systems on vehicles assigned.	1	2	3	4
2. Properly use A/C recovery equipment and recover the refrigerant from A/C Systems on vehicles assigned.	1	2	3	4
3. Properly charge A/C systems with the correct amount and type of refrigerant.	1	2	3	4
4. Accurately pressure test ,diagnose, and repair the cooling system on vehicles assigned.	1	2	3	4
5. Accurately test,diagnose, and repair the heater system on vehicles assigned.	1	2	3	4
6. Refill a cooling system with proper type and amount of coolant on vehicles assigned.	1	2	3	4

Comments: _____

SOUTH PLAINS COLLEGE
 Automotive Technology Practicum Evaluation
 Rating Code Legend
Body Systems

1. Incompetent - needs more training.
2. Competent, but lacks speed.
3. Competent and has good speed, performs quality repairs with some comebacks.
4. Performs high quality repairs, with none, or very few comebacks, and speed is close to the Flat Rate Time.

1. Road test and verify customer concern on vehicles assigned.	1	2	3	4
2. Correctly install and retrieve DTC's from vehicles assigned, using a diagnostic/scan tool.	1	2	3	4
3. Correctly update the PCM/VCM (flash) on vehicles assigned.	1	2	3	4
4. Correctly hook-up diagnostic equipment (ex.DVOM) and perform service manual diagnostic tests on the vehicles assigned by your technician and/or facility.	1	2	3	4
5. R & R dash/IP as required by your facility	1	2	3	4
6. Perform manufacturer recalls as required by your facility	1	2	3	4

Comments: _____

SOUTH PLAINS COLLEGE
 Automotive Technology Practicum Evaluation
 Rating Code Legend
Engine Performance

1. Incompetent - needs more training.
2. Competent, but lacks speed.
3. Competent and has good speed, performs quality repairs with some comebacks.
4. Performs high quality repairs, with none, or very few comebacks, and speed is close to the Flat Rate Time.

1. Road test and verify customer concern on vehicles assigned.	1	2	3	4
2. Correctly install and retrieve DTC's from vehicles assigned, using a diagnostic/scan tool.	1	2	3	4
3. Correctly update the PCM/VCM (flash) on vehicles assigned.	1	2	3	4
4. Correctly hook-up diagnostic equipment (ex.DVOM) and perform service manual diagnostic tests on the vehicles assigned by your technician and/or facility.	1	2	3	4

Comments: _____

SOUTH PLAINS COLLEGE
 Automotive Technology Practicum Evaluation
 Rating Code Legend
Suspension and Steering

1. Incompetent - needs more training.
2. Competent, but lacks speed.
3. Competent and has good speed, performs quality repairs with some comebacks.
4. Performs high quality repairs, with none, or very few comebacks, and speed is close to the Flat Rate Time.

1. Accurately perform 2 and 4 wheel alignments on vehicles assigned.	1	2	3	4
2. Replace suspension components, front and/or rear.	1	2	3	4
3. Replace steering components, rack& pinion etc.	1	2	3	4
4. Rotate & balance wheels/tires on at least 4 vehicles.(Includes roadforce technology if the facility has this equipment)	1	2	3	4
5. Diagnose all assigned tire wear problems accurately.	1	2	3	4
6. Road test all vehicles assigned and diagnose accurately.	1	2	3	4
7. Reset a Tire Pressure Monitor System on vehicles assigned.	1	2	3	4

Comments: _____

SOUTH PLAINS COLLEGE
 Automotive Technology Practicum Evaluation
 Rating Code Legend
Brakes

1. Incompetent - needs more training.
2. Competent, but lacks speed.
4. Competent and has good speed, performs quality repairs with some comebacks.
5. Performs high quality repairs, with none, or very few comebacks, and speed is close to the Flat Rate Time.

1. Accurately diagnose a brake noise problem on vehicles assigned.	1	2	3	4
2. Accurately diagnose a brake hydraulic system failure on vehicles assigned.	1	2	3	4
3. Properly reline the front and/or rear brakes on vehicles assigned.	1	2	3	4
4. Accurately use diagnostic equipment and retrieve DTC's from the brake control module.	1	2	3	4
5. Turn sets of rotors and/or drums accurately on vehicles assigned.	1	2	3	4
6. Accurately diagnose and repair ABS failures, either hydraulic or electrical/electronic on vehicles assigned.	1	2	3	4

Comments: _____
