

STEERING AND SUSPENSION SPECIALIST PROFILE OF TRAINING MASTERY

Instructor _____

Date _____

Program _____	
Grade _____	School _____
Name _____	Soc. Sec. No. _____
Address _____	Phone _____
In Case of Emergency, Contact _____	
Address _____	Phone _____
Allergies/Disabilities that might require special accommodation for training (please specify) _____	
<p>The above information can be used for school records and/or to ensure safety of students. This confidential information is not to be released to employers or the general public.</p>	

Date of Enrollment ____ - ____ - ____ Total Class Hours _____ Total Hours Absent _____

Date of Withdrawal ____ - ____ - ____ Total On-the-Job Training Hours _____ Total Hours Tardy _____

Date of Completion ____ - ____ - ____ Total Lab Hours _____

ON-THE-JOB TRAINING/WORK EXPERIENCE

_____	_____	_____
Duration of Employment	Job Title	Supervisor's Name
_____		_____
Address of Employer		Phone
_____	_____	_____
Duration of Employment	Job Title	Supervisor's Name
_____		_____
Address of Employer		Phone

Use of This Document

This document can be used to record information about the student and skills mastered. This information is useful in documenting student progress during training and in providing information about the student's qualifications to potential employers and/or for entry into advanced training programs. Instructors using these materials are authorized to reproduce this document as required for use in their training programs.



SPECIFIC JOB COMPETENCIES

Instructor: As each competency is mastered, place your initials and the date in the blank on the left. This will verify that the student can perform the skill with a minimum of supervision.

Date/Initials	Date/Initials
<p>UNIT 1 — SERVICE TAPERED ROLLER WHEEL BEARINGS</p> <p>_____ 1. State the purposes of wheel bearings. _____ 2. Label the parts of a tapered roller wheel bearing assembly. _____ 3. List the properties of wheel bearing grease. _____ 4. Diagnose wheel bearing problems. (Assignment Sheet) _____ 5. Adjust wheel bearings. (Job Sheet 1) _____ 6. Remove, clean, inspect, pack, and install non-drive wheel bearings and replace seals. (Job Sheet 2) _____ 7. _____</p> <p>Pretest Score (%) _____ Post Test Score (%) _____ Modified Gains Score (%) _____</p> <p>UNIT 2 — SERVICE STEERING SYSTEMS</p> <p>Module 2A — General</p> <p>_____ 1. Label the parts of a steering wheel and column. _____ 2. Diagnose steering column problems. (Assignment Sheet 1) _____ 3. Inspect and replace steering column components. (Job Sheet 1) _____ 4. Match the elements of front-end geometry to their descriptions. _____ 5. Label the parts of steering linkage designs. _____ 6. Label the parts of steering gears. _____ 7. Identify types of constant-velocity joints. _____ 8. Recondition constant-velocity joints. (Job Sheet 2)</p> <p>Module 2B — Manual Steering Systems</p> <p>_____ 9. Diagnose manual steering system problems. (Assignment Sheet 2) _____ 10. Inspect and replace a pitman arm. (Job Sheet 3) _____ 11. Inspect, replace or repair, and install an idler arm and mounting. (Job Sheet 4) _____ 12. Inspect and replace a center link. (Job Sheet 5) _____ 13. Inspect and replace a tie-rod assembly. (Job Sheet 6) _____ 14. Inspect and replace a steering damper. (Job Sheet 7) _____ 15. Inspect and replace bellows boots. (Job Sheet 8) _____ 16. Replace a manual rack-and-pinion steering gear. (Job Sheet 9)</p> <p>Module 2C — Power-Assisted Steering Systems</p> <p>_____ 17. Match power steering system components to their functions. _____ 18. Label the parts of a power steering pump. _____ 19. Identify types of power steering pumps. _____ 20. Diagnose power steering system problems. (Assignment Sheet 3) _____ 21. Adjust, or replace and adjust, a power recirculating-ball type steering gear. (Job Sheet 10) _____ 22. Perform a power steering pressure test. (Job Sheet 11) _____ 23. Replace a power rack-and-pinion steering assembly. (Job Sheet 12) _____ 24. Recondition a power steering pump. (Job Sheet 13) _____ 25. _____</p> <p>Pretest Score (%) _____ Post Test Score (%) _____ Modified Gains Score (%) _____</p> <p>UNIT 3 — SERVICE FRONT SUSPENSION SYSTEMS</p> <p>_____ 1. Describe the types of front suspension systems. _____ 2. Label the parts of a short-and-long-arm suspension system. _____ 3. Label the parts of a twin I-beam suspension system. _____ 4. Label the parts of a MacPherson strut suspension system. _____ 5. Label the parts of torsion bar suspension systems. _____ 6. Match front suspension system parts to their purposes. _____ 7. Label the parts of a shock absorber. _____ 8. Diagnose front suspension system problems. (Assignment Sheet 1) _____ 9. Inspect short-and-long-arm coil spring suspension system components. (Job Sheet 1) _____ 10. Repair a short-and-long-arm suspension system. (Job Sheet 2)</p>	<p>_____ 11. Inspect, replace, and adjust front suspension system torsion bars. (Job Sheet 3) _____ 12. Inspect and replace the stabilizer bar, bushings, brackets, and links. (Job Sheet 4) _____ 13. Inspect a twin I-beam suspension system. (Job Sheet 5) _____ 14. _____</p> <p>Pretest Score (%) _____ Post Test Score (%) _____ Modified Gains Score (%) _____</p> <p>UNIT 4 — SERVICE REAR SUSPENSION SYSTEMS</p> <p>_____ 1. State the purpose of the rear suspension system. _____ 2. Describe types of rear suspension systems. _____ 3. Label the parts of a multileaf spring assembly. _____ 4. Label the parts of a coil spring assembly. _____ 5. Match rear suspension parts to their purposes. _____ 6. Label the parts of an automatic leveling control system. _____ 7. Inspect, remove, and replace nonindependent and semi-independent rear suspension system components. (Job Sheet 1) _____ 8. Inspect, remove, and replace independent rear suspension system components. (Job Sheet 2) _____ 9. Inspect and replace air shock absorbers. (Job Sheet 3) _____ 10. _____</p> <p>Pretest Score (%) _____ Post Test Score (%) _____ Modified Gains Score (%) _____</p> <p>UNIT 5 — PERFORM PRE-ALIGNMENT INSPECTIONS</p> <p>_____ 1. List the items to be checked during a pre-alignment inspection. _____ 2. Select from a list true statements about the types, sizes, and construction of tires. _____ 3. Distinguish among the types of wheel balancing machines. _____ 4. Analyze tire wear patterns. (Assignment Sheet 1) _____ 5. Diagnose wheel balance and runout problems. (Assignment Sheet 2) _____ 6. Diagnose alignment problems. (Assignment Sheet 3) _____ 7. Measure axle and hub runout. (Job Sheet 1) _____ 8. Balance wheels. (Job Sheet 2) _____ 9. _____</p> <p>Pretest Score (%) _____ Post Test Score (%) _____ Modified Gains Score (%) _____</p> <p>UNIT 6 — ADJUST WHEEL ALIGNMENT</p> <p>_____ 1. State the purposes of wheel alignment. _____ 2. List alignment angles. _____ 3. Arrange in order the steps for measuring and adjusting wheel alignment angles. _____ 4. Match types of wheel alignment devices to their functions. _____ 5. Identify the parts of a wheel alignment machine. _____ 6. Interpret alignment specifications to analyze alignment angle readings. (Assignment Sheet) _____ 7. Set up a wheel alignment machine for a two-wheel and a four-wheel alignment procedure. (Job Sheet 1) _____ 8. Measure and adjust front-to-rear tracking. (Job Sheet 2) _____ 9. Measure and adjust camber. (Job Sheet 3) _____ 10. Measure and adjust caster and measure toe-out on turns. (Job Sheet 4) _____ 11. Measure steering axis inclination. (Job Sheet 5) _____ 12. Measure and adjust toe. (Job Sheet 6) _____ 13. _____</p> <p>Pretest Score (%) _____ Post Test Score (%) _____ Modified Gains Score (%) _____</p>

Student ratings on specific competencies evaluated during the course are available upon student's written request and/or by calling the instructor. Parent's or guardian's signature is necessary if student is under 18 years of age.