CDX Tasksheet Number: MHT2E004

Student/Intern Information		
Name [Date	Class
Vehicle, Customer, and Service Information	on	
Vehicle used for this activity:		
Year Make		Model
Odometer	VIN	
 Materials Required Vehicle with possible drive-axle concern Vehicle manufacturer's repair information Manufacturer-specific tools depending 	ion	/procedure(s)

Task-Specific Safety Considerations

- Activities may require test-driving the vehicle on the school grounds or on a hoist, both of which carry severe risks. Attempt this task only with full permission from your supervisor/ instructor, and follow all the guidelines exactly.
- Comply with personal and environmental safety practices associated with clothing; eye protection; hand tools; power equipment; proper ventilation; and the handling, storage, and disposal of chemicals/materials in accordance with federal, state, and local regulations.
- Always wear the correct protective eyewear and clothing and use the appropriate safety equipment, as well as fender covers, seat protectors, and floor mat protectors.
- Make sure you understand and observe all legislative and personal safety procedures when carrying out practical assignments. If you are unsure of what these are, ask your supervisor/ instructor.
- While working on the vehicle, wheel chocks must be placed on both sides of one set of tires or as directed by your supervisor/instructor.
- Exhaust evacuation hoses must be placed over exhaust outlets while the engine is used in the confined shop space.

▶ TASK	Inspect the drive-axle shafts; determine needed action.

II.E.4; P2

Student Instructions: Read through the entire procedure prior to starting. Prepare your workspace and any tools or parts that may be needed to complete the task. When directed by your supervisor/instructor, begin the procedure to complete the task and check the box as each step is finished.

Time on	

Time off.

Total time_

Procedure:	Step Completed
1. Reference the appropriate manufacturer's workshop materials.	
2. Inspect the drive-axle shafts.	
3. Remove the drive-axle shaft bolts or nuts (depending on the type of axle arrangement).	
4. Remove the axle(s) from the differential carrier housing.	
5. Inspect the axle flange for distortion or rust buildup and mounting holes for ovality or elongation.	
a. Describe the condition of the axle flange:	
b. Describe the condition of the mounting holes:	
6. If reusing the axle, clean the gasket material from the axle flange.	
7. Inspect the axle housing hub for damage to the threaded holes or stripped or broken studs.	

8. Inspect the axle shaft for cracks and straightness.	
a. Describe the condition of the axle shaft:	
9. Inspect the axle splines for damage or twisting (see Figure 36-1). Make sure flange is flat and free of rust and gasket material Check mounting holes for elongation or distortion Inspect axle for cracks and straightness Check spines for any damage or twisting Figure 1	
a. Describe the condition of the axle splines:	
10. Reinstall the axle and gasket with the correct bolts or nuts and record the torque specification according to the manufacturer's workshop manual.	
a. Torque required: ft-lb (Nm)	
11. Refill the differential with the manufacturer's specified fluid to the proper level.	
12. If the axle is not within specification, list the procedure from the manufacturer's workshop manual to rectify the problem:	

13. Return the vehicle to its beginning condition, and return any tools you used to their proper locations. 14. Discuss your findings with your supervisor/instructor. Non-Task-Specific Evaluations: 1. Tools and equipment were used as directed and returned in good working order. 2. Complied with all general and task-specific safety standards, including proper use of any personal protection equipment (PPE). 3. Completed the task in an appropriate time frame (recommendation: 1.5 or 2 times the flat rate). 4. Left the workspace clean and orderly. 5. Cared for customer property and returned it undamaged.	Step Complete
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5. Cared for customer property and returned it undamaged.	
Student signature Date	
Comments:	

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and any necessary action(s) recommended.

Evaluation Instructions: The scoring box below is intended to act as a guide for both student and supervisor/instructor. Each criterion listed will help students to understand what is expected of them and help supervisors/instructors to articulate the level of success at a particular task. The scoring is set up to allow a second attempt at each task (see the Test and Retest columns). Scoring is also designed only to award students points for task criteria that were completed correctly. Points are lost for failure to complete the employability requirements (see Non-Task-Specific Evaluation criteria). When all criteria are evaluated, tally the points for a total at the bottom of each column.

Tasksheet Scoring

	Test		Retest	
Evaluation Items	Pass	Fail	Pass	Fail
Task-Specific Evaluation	(1 pt)	(O pts)	(1 pt)	(O pts)
Student detailed the 3 Cs on the submitted repair order.				
Student used manufacturer's repair information.				
Student performed diagnostic measurements properly and made appropriate conclusions.				
Student completed repairs as directed by the supervisor/instructor.				
Non-Task-Specific Evaluation	(O pts)	(-1 pt)	(O pts)	(-1 pt)
Student successfully completed at least three of the non-task-specific steps.				
Student successfully completed all five of the non-task-specific steps.				
Total Score: <total #="" 4="%" of="" points=""></total>				

Supervisor/Instructor:	
Supervisor/instructor signature	Date
Comments:	
District the state of the state	2.1
Retest supervisor/instructor signature	Date
Comments:	