



**Task Title: Automotive Vehicle Alignment Machine**

OALCF Cover Sheet – Practitioner Copy

**Learner Name:** \_\_\_\_\_

**Date Started:** \_\_\_\_\_

**Date Completed:** \_\_\_\_\_

**Successful Completion:** Yes  No

**Goal Path:** Employment  Apprenticeship

Secondary School  Post Secondary  Independence

**Task Description:** Locate information in a video about computerized tools used for vehicle alignment.

**Main Competency/Task Group/Level Indicator:**

- Find and Use Information/A3
- Communicate Ideas and Information/Write continuous text/B2.1
- Use Digital Technology/D.1

**Materials Required:**

- Pen/pencil and paper
- Computer or digital device

Task Title: AutomotiveVehicleAlignmentMachine\_EA\_A3\_B2.1\_D.1

## Learner Information

Automotive service technicians may watch online videos to learn more about how to use equipment to service vehicles.

Copy and paste this address into the browser of the computer and watch the video about vehicle alignment:

<https://www.youtube.com/watch?v=C3BhnWqW-fY>

## Work Sheet

**Task 1: What is the name of the automotive service repair shop where the video was recorded?**

Answer:

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**Task 2: What is the Hunter alignment machine taking a picture of?**

Answer:

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**Task 3: How does the automotive service technician use the numbers highlighted in red on the computer monitor?**

Answer:

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**Task 4: Open a new tab on the web browser and search for the definition of "caster angle". Write a definition for "caster angle".**

Answer:

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Task Title: AutomotiveVehicleAlignmentMachine\_EA\_A3\_B2.1\_D.1

**Task 5: Open a new tab on the web browser and search for the definition of "camber angle". Write a definition for "camber angle".**

Answer:

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## Answers

**Task 1: What is the name of the automotive service repair shop where the video was recorded?**

Answer: Ripley's Muffler and Brakes

**Task 2: What is the Hunter alignment machine taking a picture of?**

Answer: The Hunter alignment machine is taking a picture of a target on every wheel (the learner may also say front and rear wheel).

**Task 3: How does the automotive service technician use the numbers highlighted in red on the computer monitor?**

Answer: The technician uses the highlighted numbers to make adjustments to be within the range of the specifications for that particular vehicle's wheels. The learner may also say that it is used to get the tires into the green zone or to come closer to the alignment or to tighten the "toe".

**Task 4: Open a new tab on the web browser and search for the definition of "caster angle". Write a definition for "caster angle".**

Answer: The caster angle is the angular displacement of the steering axis from the vertical axis of the suspension of a steered wheel in a car, bicycle or other vehicle, as seen from the side of a vehicle.

(Source: [http://en.wikipedia.org/wiki/Caster\\_angle](http://en.wikipedia.org/wiki/Caster_angle))

**Task 5: Open a new tab on the web browser and search for the definition of "camber angle". Write a definition for "camber angle".**

Answer: The camber angle is one of the angles made by the wheels of a vehicle; specifically, it is the angle between the vertical axis of a wheel and the vertical axis of the vehicle when viewed from the front or rear. It is used in the creation of steering and suspension.

(Source: [http://en.wikipedia.org/wiki/Camber\\_angle](http://en.wikipedia.org/wiki/Camber_angle))

### Performance Descriptors

Levels	Performance Descriptors	Needs Work	Completes task with support from practitioner	Completes task independently
A3	extract info from films, broadcasts and presentations			
B2.1	writes simple texts to request, remind or inform			
	conveys simple ideas and factual information			
	demonstrates a limited understanding of sequence			
	uses highly familiar vocabulary			
D.1	locates specific functions and information			
	requires support to identify sources and to evaluate and integrate information			
	begins to perform simple searches (e.g. internet, software help menu)			

This task: Was successfully completed  Needs to be tried again

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Learner Comments:

Instructor (print):

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Learner (print):

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