

Developing OALCF Apprenticeship Tasks for the Competency “Use Digital Tasks” (2014/2015)

Task-based Activity Cover Sheet

Task Title: Automobile Codes for Troubleshooting

Learner Name:	
Date Started:	Date Completed:
Successful Completion: Yes ___ No ___	
Goal Path: Employment <input checked="" type="checkbox"/> Apprenticeship <input checked="" type="checkbox"/> Secondary School ___ Post Secondary ___ Independence ___	
Task Description: Understanding diagnostic codes used in automobiles.	
Competency: A: Find and Use Information D: Use Digital Technology	Task Group(s): A1: Read continuous text A2: Interpret documents
Level Indicators: A1.1: Read brief texts to locate specific details A2.2: Interpret simple documents to locate and connect information D2: Perform well-defined, multi-step digital tasks	
Performance Descriptors: see chart on last page	
Materials Required: <ul style="list-style-type: none"> • Pen/pencil and Paper • Computer with Internet access 	

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Automotive Service Technicians must use the internet to locate and understand codes used in diagnostics. They must understand how to read a code using diagnostic tools. They use the internet to find the symptoms and causes for troubleshooting issues with all parts of vehicles.

Look at the “Trouble Codes Chart.”

Learner Information and Tasks:

Task 1: Do a keyword search to list what “OBD” stands for.

Task 2: An Infiniti has the following trouble code, B1049. What do the first three characters and digits in the code represent?

Task 3: Do a keyword search for “Infiniti B1049”. What does this code indicate as the possible problem?

Task 4: What do the following codes indicate as the possible problem?

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Infiniti P1401

Honda P1300

Ford P1135

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Trouble Codes Chart

First Character - System	Second Digit - Code Type	Third Digit - Sub-System	Fourth and Fifth Digit - Variable and relate to a particular problem
P = Powertrain	0 = Generic	1 = emission management (fuel or air)	
B = Body	1 = Enhanced (Manufacture specific)	2 = Injector Circuit (Fuel or Air)	
C = Chassis		3 = Ignition or Misfire	
U = Undefined		4 = Emission Control	
		5 = Vehicle Speed & Idle Control	
		6 = Computer & Output Circuit	
		7 = Transmission	
		8 = Transmission	
		9 = SAE Reserved	
		0 = SAE Reserved	

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Answer Key

Task 1: Do a keyword search to list what “OBD” stands for.

On-Board Diagnostics

Task 2: An Infiniti has the following trouble code, B1049. What do the first three characters and digits in the code represent?

B = Body

1 = Enhanced (Manufacture specific)

0 = SAE Reserved

Task 3: Do a keyword search for “Infiniti B1049”. What does this code indicate as the possible problem?

Driver Air Bag Module Open

Task 4: What do the following codes indicate as the possible problem?

Infiniti	P1401	EGR Temperature Sensor
Honda	P1300	Multiple Cylinder Misfire Detected
Ford	P1135	Ignition Switch Signal Missing or Improper

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Performance Descriptors		Needs Work	Completes task with support from practitioner	Completes task independently
A1.1	<ul style="list-style-type: none"> Reads short texts to locate a single piece of information 			
	<ul style="list-style-type: none"> Follows simple, straightforward instructional texts 			
A2.2	<ul style="list-style-type: none"> Performs limited searches using one or two search criteria 			
	<ul style="list-style-type: none"> Extracts information from tables and forms 			
	<ul style="list-style-type: none"> Uses layout to locate information 			
	<ul style="list-style-type: none"> Makes low level inferences 			
D2	<ul style="list-style-type: none"> selects and follows appropriate steps to complete tasks 			
	<ul style="list-style-type: none"> locates and recognizes functions and commands 			
	<ul style="list-style-type: none"> makes low-level inferences to interpret icons and text 			
	<ul style="list-style-type: none"> begins to identify sources and evaluate information 			
	<ul style="list-style-type: none"> performs simple searches using keywords (e.g. internet, software help menu) 			

This task: was successfully completed____ needs to be tried again____

Learner Comments

Instructor (print)

Learner Signature