



SELF-EVALUATION TEST TRUCK MECHANICS

This test contains four modules dealing with the knowledge and skills required to obtain a competency card in the field of truck mechanics.

- Power train, bearings and steering
- Hydraulic and pneumatic brakes
- Engine and tune up
- Electricity, electronics, and air conditioning

Identification

Last name: _____
First name: _____
C/C #: _____

The CPA Montréal developed this self-evaluation test in collaboration with Emploi-Québec in order to avoid you being disappointed when you receive the results of your qualification exam. The goal of the self-evaluation test is to help assess your knowledge of **truck mechanics**. This test will also help you determine what level you have reached in the learning process before you decide to take the qualification exam.

In order to be accurate, the test must be taken with seriousness and honesty, especially since it will be used to determine the amount of training that is necessary or the extent to which you are ready for the professional qualification exam.

The results will be used for general evaluation only and will not be included in your file. It will be used especially to guide you in preparing for the exam.

Directions:

Simply check the “**Yes**” or “**No**” box located to the right of each question.

For example:

	Yes	No
1. Do you know how to check a kingpin?		

After each module, the system will calculate the number of “**Yes**” selected and interpret the results.

The result of each module will be automatically compiled into the Results table at the last page of the self-evaluation test.

MODULE 1 POWER TRAIN, BEARINGS AND STEERING

	Yes	No
1. Do you know how to find specifications using a shop manual?		
2. Can you differentiate the types of pressure plates?		
3. Do you know how to check or adjust the clutch pedal or brake clutch free play?		
4. Can you identify several possible reasons for a slipping clutch?		
5. Can you perform routine inspection and maintenance of a differential		
6. Can you explain how a differential operates?		
7. Do you know how to adjust a differential backlash?		
8. Do you know how to inspect a drive shaft?		
9. Do you know how to check and do the maintenance of universal joints (U-joints)?		
10. Do you know how to perform the routine inspection and maintenance of an electronically controlled automatic transmission?		
11. Can you inspect a power steering system?		
12. Can you adjust a steering gear box?		
13. Do you know how to inspect leaf and air suspension?		
14. Do you know how to adjust a wheel bearing?		
15. Can you identify the internal parts of a manual transmission?		
16. Do you know how to inspect the pneumatic system on a manual transmission?		
17. Can you check a kingpin?		
18. Can you reassemble a kingpin?		
19. Do you know how to inspect a mag wheel and a tire?		
20. Do you know how to inspect a fifth wheel?		

POWER TRAIN, BEARINGS AND STEERING (CONT.)

Total :

MODULE 2 HYDRAULIC AND PNEUMATIC BRAKES

	Yes	No
1. Can you explain the role of brake fluid and its required maintenance?		
2. Can you identify the possible reasons for a brake problem?		
3. Do you know how to inspect and test the components of the brake system when you replace the shoes?		
4. Do you know how to measure a brake drum and decide if it can be reused according to the specifications?		
5. Do you know how to measure the run out on a rotor?		
6. Can you explain the operation of an automatic slack adjuster?		
7. Can you adjust the brakes on a truck?		
8. Can you identify the parts of a pneumatic brake system?		
9. Can you diagnose problems in a pneumatic brake system?		
10. Do you know how to inspect the wheel speed sensors on a vehicle equipped with ABS brakes?		

Total :

MODULE 3 ENGINE AND TUNE UP

	Yes	No
1. Can you explain the position of the valves and the piston for each of the four engine strokes?		
2. Do you know how to adjust the timing of the camshaft and the crankshaft?		
3. Do you know how to adjust the valves according to manufacturer specifications?		
4. Do you know how to disassemble and measure the engine parts?		
5. Can you determine the reasons why a truck would lack power?		
6. Do you know how to measure crankshaft end play?		
7. Can you identify the tools that are needed to measure a cylinder for taper?		
8. Can you identify the possible causes for a problem with faulty engine operation?		
9. Do you know how to inspect a fuel injector?		
10. Do you know how to check the voltage going from the ECM to a sensor?		
11. Do you know how to use a micrometer (metric and standard)?		
12. Do you know how to adjust and diagnose a problem with a Jacob brake?		
13. Do you know how to prepare the cylinder walls when installing new piston rings?		
14. Can you list the different components of the cooling system?		
15. Do you know how to check a radiator cap?		

Total:

MODULE 4 ELECTRICITY, ELECTRONICS, AND AIR CONDITIONING

	Yes	No
1. Do you know how to use all of the multimeter functions (voltmeter, ammeter, ohmmeter, diode tester)?		
2. Do you know how to inspect a battery?		
3. Do you know how to connect two 6-volt batteries in series?		
4. Do you know how to test the charging system of a vehicle using a carbon pile?		
5. Can you identify a circuit on an electrical diagram?		
6. Can you identify electrical symbols?		
7. Do you know how to do a voltage drop test on a circuit?		
8. Do you know how to find the voltage required by a starter?		
9. Can you identify, between the starter and the solenoid, which of the two parts is defective when replacing the set?		
10. Do you know how to inspect the two solenoid windings on a starter using a multimeter?		
11. Can you replace the refrigerant in an air conditioning system?		
12. Can you identify the possible causes of problems with an air conditioning system?		

Total :

Identification

Last name: _____ First name: _____ C/C #: _____
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	I need to refresh my knowledge		
	I am ready for the exam	Self-training guide	Course
Power train, bearings and steering			
Hydraulic and pneumatic brakes			
Engine and tune up			
Electricity, electronics, and air conditioning			

*If you are ready to take the exam, please complete **the application form for the exam**.*

*To purchase a self-study guide, please complete **the order form** and send it by mail with your paiement.*

For training, please contact the Training Department at 514 288-3003.

To ensure rapid processing of your qualification record, you can inform us of your results by telephone at 514 288-3003 or by fax at 514 288-2984.