PREPARATION CP

AUTOMOBILE MECHANIC ADVANCED



qualifying exam

WHY THE QUALIFICATION?

The professional qualification exam is an assessment tool that aims to certify that your knowledge and skills meet standards.

The exam is identical throughout Quebec. The qualification certificate obtained following successful completion is recognized in the other provinces of Canada and in France.

For the mechanic

it is the recognition of their skills and the improvement of their working conditions.

For the employer

it is the certification of the qualification of its staff.

For the public

it is a guarantee of confidence and security.

SUGGESTED ROUTE TOWARDS QUALIFICATION



Training



Link: <u>www.cpcpa.ca/qualification-et-formation/formations</u> Description: Training is available depending on the skills to be worked on. With the help of the CPA training advisor in your region, it is possible to put together a training plan adapted to the needs of each candidate.

Qualifying exam

Exam: Automotive mechanics - advanced
Location: CPA in your region
Card: Class B, Class B/A, Class A (depending on region)
Description: The qualification exam is made up of a single theoretical component.

Prerequisite: Journeyman (Class C)



THE BLIND THEORETICAL



Number of questions: 70 from a bank (random)

Distribution of questions:

	10	%	knowledge
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- 35 % understanding
- **55 %** diagnosis

Passing grade :

60% --> Class B

67% ---> Class A/B (depending on region)

75% --> Class A

Right to retake exam: 3 months

Questions similar to the ones found in the exam can be found

here: CLICK HERE



Process

- A computer is assigned to each candidate upon arrival.
- The supervisor will remind you of the rules to follow while doing the exam.
- It is possible to raise your hand to ask questions relating to the use of the software or the computer only.
- The software allows you to navigate between questions, allowing for revision at the end.
- Cell phones, lighters, and other computer devices must be given to the supervisor upon arrival.
 - You have the right to use your personal headphones if you wish (the software allows automated reading of questions).



Cooling systems

Lubrication systems

Engine assemblies

Drive systems

Fuel delivery systems and fuel

Injection systems

Ignition systems



Diagnose and broblems

Understand how

Intake systems and exhaust

systems

Emission control system

Diesel engine systems

















Starting systems, charging systems and batteries Basic wiring and electrical systems Lighting systems and windshield wiper systems Entertainment Systems Optional electrical accessories Display instruments Electrical accessories Air Flow Control Systems Refrigerant system



Understand h

Know and recoon

Diagnose and broblems



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TRAINING



Description

At the end of this training, the participant will be able to properly use, among other things, their multimeter in order to establish precise diagnoses of electrical problems.

He will be able to carry out the necessary repairs according to the methods recommended by the manufacturers.



Mécanique automobile avancée Électricité



Course Objectives

- Perfectly master the basic concepts of electricity.
- Be familiar with electrical signals such as frequency, duty cycle, peak value and others.
- Develop the skills necessary to perform diagnostics using appropriate tools such as a multimeter, current clamp, test light, oscilloscope and others on electrical systems.
- Read and interpret wiring diagrams.
- Conduct tests on charging and starting systems.
- Study heated seat systems.

Ttraining duration In person 28 hours





Description

Developed by the CPCPA the CPA and our partne

At the end of this training, the participant will be able to identify the components and elements of the suspension, steering and brake systems.

He will be able to understand how it works, make diagnoses and repairs in accordance with manufacturers' specifications.

> Advanced Automobile Mechanics Steering, Suspension, Brakes



Course Objectives

- Reminder on the operation of the steering and suspension systems
- Research on different anti-lock brake systems, stability control systems, wheel hubs, and bearings
- Inspection and verification of all systems
- Updating practical skills for diagnosis and repair
- Selection of appropriate products
- Interpretation and analysis of results following operational tests

Training duration In person 14 hours

TRAINING



Description

At the end of this training, the participant will be able to identify the components of the different systems connected to the gasoline engine and the diesel engine as well as to carry out repair, maintenance, and diagnosis.



Course Objectives

- Define the operating principle of the engine and identify its components.
- Be able to diagnose the different functions of the combustion engine.
- Define the operating principle of the gasoline engine emission control system.
- Analyze and diagnose a lubrication system.
- Analyze and diagnose an engine cooling system.
- Analyze and diagnose a heating and air conditioning system.
- Define basic principle of diesel engine.
- Define the operating principle of the diesel engine emission control system.

Training duration In person 14 hours

TRAINING



Drivetrain Components

Description

At the end of this training, the participant will be able to identify transmission and differential components, as well as perform repair, maintenance, and diagnosis.



Advanced Automobile Mechanics Drivetrain Components



Training duration

In person 14 hours

Course Objectives

- Define the main roles of a clutch and identify its components.
- Be able to diagnose a clutch.
- Be familiar with operating principle as well as the components of a manual transaxle and a automatic transaxle.
- Be able to diagnose a manual transaxle and a automatic transaxle.
- Be able to diagnose transmission shafts.
- Identify transfer case failures and diagnostic methods.
- Identify differential failures and symptoms.
- Identify limited slip and torque vectoring systems.

qualifying exam

AUTOMOBILE MECHANIC ADVANCED

