



WILL AI REPLACE ME?

Automotive Maintenance Technician

Manufacturing

?? Although eight criteria, including the complexity and creativity of primary tasks and associated risk levels, indicate this job has significant automation potential, its physical dimension acts as a substantial hurdle to further automation

The role of an Automotive Maintenance Technician involves a significant physical aspect, which explains the limited automation of its core tasks despite technological advancements. While AI systems can assist in diagnosing vehicle issues, especially through advanced electronic systems and diagnostic tools, manual intervention for repairs and maintenance remains predominant.

The complexity of modern vehicles requires in-depth technical expertise, manual dexterity, and the ability to physically interact with different parts of the vehicle. Testing vehicle systems and components can also be supported by advanced software, but the interpretation, adjustments, and physical repairs require human expertise.

Automation degree: 9,75%

Job Still Minimally Affected by AI Due to Its Physical Dimension

9,75%

Main tasks

This section reviews the 3 main tasks associated with the job studied and assesses the potential level of automation induced by AI (« **AI Automation Impact** »).The modeling uses 8 criteria detailed on the « **Methodology** » page.

Tasks	AI Automation Impact
Diagnose vehicle issues.	Moderate
Perform repairs and regular maintenance.	Significant
Test vehicle systems and components.	Significant

Impact on skills

At-risk Skills ↓	
Traditional Pneumatic System	With technological evolution in the automotive industry, new systems, such as airless or with advanced monitoring systems, could make traditional knowledge of pneumatics less relevant.
Combustion Engine Specialization	Traditional components of internal combustion vehicles will become less common with the rapid evolution of electric vehicles. These have fewer moving parts and may require a different type of maintenance from traditional engines.
Future-proof Skills ↑	
Vehicle and Equipment Malfunction Detection	No matter the evolution of technology, the ability to diagnose a problem remains essential. Diagnostic systems may change, but the need to understand and identify problems will remain.
Knowledge of Safety Standards Evolution	Safety will always be a concern, whether for the technician himself or to ensure that the vehicle is safe for the driver and passengers. A solid knowledge of safety rules and their application is a skill that will remain relevant regardless of the technological evolutions in the sector.

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