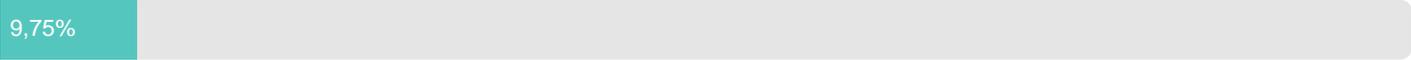WILL AI REPLACE ME?

Quality Control Technician

Manufacturing

The role of a quality control technician encompasses responsibilities that involve a combination of physical tasks, such as product inspections, along with more administrative duties like report writing.

Although AI can offer support in the realm of report writing and collaboration with production teams, the fundamental nature of their work, rooted in physical inspections, imposes significant limitations on the extent of automation feasible for this profession.

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
Conduct tests and inspections to ensure product compliance	Very Low
Write detailed reports on results and observed anomalies	Significant
Collaborate with production teams to improve product quality	Moderate

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Impact on skills

At-risk Skills ↓	
Manual quality control of production	With the rise of sensors, automated systems, and AI, manual quality control will diminish as machines can often perform these tasks more rapidly and with consistent accuracy. While human judgment remains essential for many quality decisions, the need for manual checks will decrease.
Check the compliance of deliverables from suppliers, subcontractors, providers	With the evolution of automated systems and digital platforms, it's likely this process will become more automated and less manual.

Future-proof Skills ↑	
Analyze non-conformities and determine corrective measures	The ability to analyze anomalies, pinpoint their causes, and suggest solutions is crucial. It requires a deep understanding of processes and products, as well as an ability to think critically.
Methods and tools for problem resolution	Problem-solving is a fundamental skill that requires the capacity to identify problems, analyze their causes, and find solutions. It's a skill that's challenging to automate and will always be valued.

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