Manufacturing 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

A Manufacturing Technician, although crucial in the manufacturing field, can expect to see some areas of their work benefit from productivity gains through AI. For instance, automated monitoring systems can anticipate and detect irregularities in production processes faster than the human eye.

Furthermore, artificial intelligence can enhance quality control protocols by using image recognition to identify minor defects in products. When it comes to machine tuning, even though it involves a strong manual aspect, intelligent software could assist in achieving optimal calibration according to specifications.

Automation degree: 9,75%

Job Still Minimally Affected by AI Due to Its Physical Dimension

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
Monitor production processes.	Significant
Conduct quality checks.	Significant
Adjust machines according to specifications.	High

Impact on skills

At-risk Skills ↓	
Traditional Storage Methods	With the rise of computer-aided manufacturing, the Internet of Things (IoT), and automated inventory management systems, traditional storage methods could quickly become obsolete. Advanced systems will be able to optimize storage without human intervention, adjust stock levels in real time based on needs, and even anticipate future needs through predictive analytics.
Computer Aided Design and Drafting (CADD)	While CAD and Drafting are still widely used, they are evolving rapidly. Current software may become obsolete as more advanced versions and integrated platforms emerge. Moreover, with the advent of AI, some design tasks could be semi-automated, requiring less human intervention.
Future-proof Skills ↑	
Analyzing a Malfunction or Non-conformity	Despite technological advances, identifying, analyzing, and resolving problems will always remain essential. Technology can help detect these problems, but human ability to analyze and understand root causes will always be necessary.
Determining Corrective Actions	Upon identifying a problem, implementing corrective actions often requires a deep understanding of processes and a capacity for critical thinking to ensure that solutions are effective and sustainable.

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