

5

SMART MANUFACTURING

TERMS TO KNOW



How can manufacturing be smart if it doesn't have a brain?

Here's how it works...



Smart manufacturing uses fully integrated and collaborative manufacturing systems to respond in real time to obstacles or challenges faced by a factory.

These 'Smart' machines process data to streamline production, respond to customer demands, and reduce the risk of product failures and safety issues on the plant floor.



Ready to learn more about Smart Manufacturing?



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Here are 5 important terms to know...

The Internet of Things



What is it?



The Internet of Things, or IoT, is a network of devices, machines, buildings, and equipment that can exchange data and information digitally.

What is it?



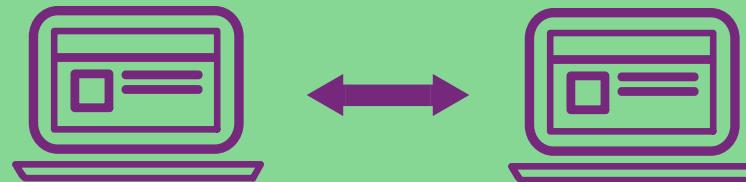
The Internet of Things, or IoT, is a network of devices, machines, buildings, and equipment that can exchange data and information digitally.

Why does it matter?



It enables remote access throughout the network, allowing each network-connected device to communicate without manual interference.

Machine-to-Machine



What is it?



Machine-to-Machine, or M2M, provides remote access to one machine's data from another.

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Why does it matter?

It monitors machine performance throughout the manufacturing operation and ensures that all runs smoothly.

Cloud Computing



What is it?



Cloud Computing is a phrase used to describe a machine's ability to access data via the Internet.

What is it?



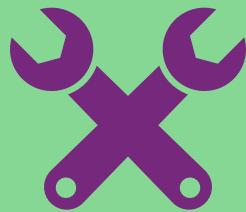
Cloud Computing is a phrase used to describe a machine's ability to access data via the Internet.



Why does it matter?

It's useful in manufacturing because internet-based data can be shared and accessed on an immediate and on-demand basis.

Preventive Maintenance



What is it?



Preventive maintenance is an ongoing, planned process that follows guidelines for inspecting, detecting, and correcting equipment failure.

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Preventive maintenance is an ongoing, planned process that follows guidelines for inspecting, detecting, and correcting equipment failure.

Why does it matter?

It eliminates unnecessary inspections and maintenance tasks, making operations more reliable and cost-effective.

Predictive Analytics



What is it?



Predictive analytics is an automated process that looks at the history of machine failures to predict future equipment issues.

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Why does it matter?

It compares machine sensor data to spot potential problems, giving manufacturers the insight they need to better anticipate maintenance and productivity issues.



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