


Job Dashboard | Process Technician / Maintenance Technician (1/2)

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Trends impacting this role			Impact Assessment
Automated manufacturing	Autonomous robots	Digitalisation	 MEDIUM degree of change in tasks
Internet of Things	Manufacturing analytics	Sustainable production	

Responsibilities of the role **today**


Today, this job role is responsible for supporting operations within the food production plant by setting up machinery for each production shift and by performing routine maintenance work on the equipment and/or facilities. The job holder is expected to follow instructions and schedules closely for conducting regular preventive maintenance work such as changing of lubrication oil, tuning machine speeds, and other calibration on the food production equipment.

Job tasks today	Impact at task-level / Future view of job tasks		Time horizon
Set up and perform routine maintenance and cleaning of manufacturing equipment for daily production operations	L	<ul style="list-style-type: none"> With the introduction of new food manufacturing machines and equipment, and the increasing adoption of automation or autonomous robots, the job holder is expected to acquire the relevant skills and know-how associated with the set-up, routine maintenance, and cleaning of a growing range of manufacturing equipment 	<ul style="list-style-type: none"> Short-term
Operate, monitor, and troubleshoot automated manufacturing systems	M	<ul style="list-style-type: none"> Internet of Things will allow the job holder to monitor equipment performance in real-time, minimising manual effort required to physically monitor individual machine units across production lines Time saved from reduction in manual effort to collect data will allow the job holder to effectively focus on higher value-added tasks, such as collaboration with Production teams to identify areas for improvement, or overseeing a larger production area with more machine units 	<ul style="list-style-type: none"> Medium-term
Ensure compliance with cleanliness and safety standards during the set up and maintenance of Food Manufacturing equipment	L	<ul style="list-style-type: none"> Job holder will need to be familiar with the cleanliness and safety standards of a growing range of food manufacturing equipment in order to ensure compliance during relevant activities 	<ul style="list-style-type: none"> Short-term
Identify and suggest improvements in equipment maintenance process	M	<ul style="list-style-type: none"> The job holder may be required to possess a basic understanding of manufacturing analytics to interpret equipment data collected from Internet of Things solutions, and generate insights on overall equipment effectiveness. He/she will be required to propose and drive improvements, collaborating with cross-functional teams as necessary With an increasing emphasis on sustainable production, the job holder may need to identify areas of improvement related to sustainability The job holder may also be involved in executing on predictive or preventive maintenance schedules arising from the availability of machine performance data 	<ul style="list-style-type: none"> Medium-term



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Responsibilities of the role **in the future**

In the future, this job role is expected to support operations within the food production plant by setting up, maintaining and performing simple troubleshooting of a growing range of automated equipment and machines. As automation and digitalisation reduce reliance on manual effort in monitoring food manufacturing systems, the job holder may be required to oversee a larger production area and/or be upskilled to handle more complex equipment issues. Job holders in this role will also need to develop data analytics skills to better interpret and analyse available data.

Technical Skills (TSC) Required

• Active and Smart Packaging	Level 3	• Green Manufacturing Design and Implementation	Level 3
• Advanced Processing Technology	Level 3	• Hazards and Risk Control, and Policy Management	Level 2
• Automated Food Manufacturing System Maintenance	Level 2	• Internet of Things Management	Level 2
• Automated Operation Monitoring	Level 2	• Manufacturing Process Management	Level 3
• Automation Process Control	Level 3	• Process Validation	Level 2
• Continuous Process Improvement	Level 2	• Project Management	Level 3
• Document Control	Level 2	• Quality System Management	Level 2
• Emergency Response Management	Level 2	• Stakeholder Management	Level 3
• Equipment Maintenance	Level 2	• Systems Thinking	Level 2
• Food Manufacturing Facility Maintenance	Level 2	• Technical Report Writing	Level 2
• Food Safety Management	Level 2	• Utilities Management	Level 3
• Good Manufacturing Practices Implementation	Level 2	• WSH Performance Management	Level 2

Critical Core Skills (CCS) Required

• Problem Solving	Intermediate	• Service Orientation	Basic
• Collaboration	Basic	• Communication	Basic