

7.2.1 Job Dashboards

Production Supervisor

Megatrends impacting the Job Role in Short to Medium-Term

COVID-19	Multi-Skilling	Sustainable Construction/Buildings	Value Chain Aggregation & Integration	Workforce Challenges
----------	----------------	------------------------------------	---------------------------------------	----------------------

Technology Trends impacting the Job Role in Short to Medium-Term

BIM Technology	Data Analytics & AI	Digital Twin	Remote Monitoring
RPA	Robots & Automation	VR/AR	5G, IoT & Smart Buildings
Innovative Building Materials	Modular Construction	3D Printing	

Impact Assessment

M

MEDIUM

degree of change in tasks

Today

This job role assists in production planning and performs day-to-day operations of the factory site. Job holders comply with production schedules and perform construction operations. Job holders adhere to cost, time, and quality guidelines established in predefined contracts while complying with relevant regulatory requirements and processes.

In the Future

This job role may **leverage technology to automate production planning tasks** such as information and data consolidation, as well as enable **remote supervision of factory sites** for operations and risks. Job holders may see **continued focus on conducting maintenance and performing corrective actions** to rectify faults and may **need data interpretation skills to support predictive maintenance** for equipment and machines, allowing for proactive and efficient operational responses. Job holders may also see **greater emphasis on adherence to safety policies and standards and guidelines**.

Job Tasks Today	Impact at Task-level / Future view of Job Tasks		Time Horizon
Support production planning and logistics	M	<ul style="list-style-type: none">Job holders may need an understanding of digital platforms (e.g., BIM Technology) application to reference shop drawings for production work, as documentation across the value chain is increasingly consolidated.Job holders may also leverage digital tools (e.g., Data Analytics & AI) to support planning of production schedule events, equipped with the ability to apply the tools to optimise planning.	Short-term
	H	<ul style="list-style-type: none">RPA may automate the consolidation process across information gathering for labour and equipment calculations, data on material and outputs quantity and production and output data. Job holders will need to validate the consolidated output.Job holders will need to be familiar with consolidation of data onto digital tools and platforms, in line with the trend towards common data standards.	Short-term
	M	<ul style="list-style-type: none">Job holders may need to interpret machine monitoring data enabled by digital tools (e.g., IoT) and shift towards conducting real-time, proactive maintenance instead of reactive maintenance.	Short-term

7.2.1 Job Dashboards

Production Supervisor

Job Tasks Today	Impact at Task-level / Future view of Job Tasks		Time Horizon
Supervise and support factory production	M	<ul style="list-style-type: none"> Digital tools (e.g., Remote Monitoring, lo) may enable remote supervision and inspection. Job holders will thus need to be equipped with capabilities in employing these technologies effectively to perform supervisory tasks, and to take corrective actions to rectify production faults if required. Job holders may look to leverage digital planning tools (e.g., Data Analytics & AI) to derive data insights for optimisation of manpower planning. 	Short-term
Comply with safety and sustainability standards	M	<ul style="list-style-type: none"> Job holders may need to know how to operate Remote Monitoring technologies to conduct inspections remotely and safely. 	Short-term

The following TSCs/CCSs have been identified as in-demand/emerging for the job role going forward:

In-demand Technical Skills and Competencies		
Common Data Environment Management	Process Improvement and Optimisation	Technology Application
Emerging Technical Skills and Competencies		
Critical Thinking	Stakeholder Management	
Emerging Critical Core Skills		
Digital Fluency	Transdisciplinary Thinking	