

7.2.1 Job Dashboards

Senior Production Manager

Megatrends impacting the Job Role in Short to Medium-Term.

COVID-19	Multi-Skilling	Sustainable Construction/Buildings	Value Chain Aggregation & Integration	Workforce Challenges
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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 leads and monitors the planning for production. Job holders are responsible for organizing logistics and production schedules and ensuring that the organisation has sufficient resources for production to take place in a timely manner.

In the Future

This job role may see **greater integration of technology in tasks for leading and monitoring production planning**, including logistics schedule management and resource management. Job holders may be expected to have an **understanding of utilising technology to manage planning**, and **interpret data insights so as to optimise and develop plans and schedules** that are sufficiently resourced, and meet time, cost and quality objectives. Job holders may see **continued focus on managing alignment to compliance, regulatory and legislative requirements**.

Job Tasks Today	Impact at Task-level / Future view of Job Tasks	Time Horizon
Analyse production planning and logistics	<div>M</div> <div><ul style="list-style-type: none">Development of construction masterplans, labour and machining schedules and procurement may be augmented by the use of digital tools (e.g., Data Analytics & AI) to analyse requirements and optimise their development. Job holders will need proficiency in using these digital tools and interpreting data insights, to optimise schedules for efficiency.Similarly, these digital tools may also augment the analysis process for current production estimates and outputs, to develop optimal production output goals. Job holders will need to possess data analytical and interpretation capabilities to validate, interpret, and refine outputs as necessary.Job holders will need to continue fostering collaboration with stakeholders to meet production objectives, and may apply findings from data-driven analyses to achieve them.</div>	Short-term

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Job Tasks Today	Impact at Task-level / Future view of Job Tasks		Time Horizon
Review and monitor factory production	M	▶ Digital tools and platforms (e.g., Remote Monitoring, IoT, BIM) may be leveraged to enhance the monitoring of building progress and factory production operations. Job holders will be expected to understand and leverage the technology in assessing factory performance, and supervising investigations of the causes of production faults to address performance gaps as required.	Short-term
	M	▶ Job holders may need to understand how technology (e.g., Robots and Automation) can be leveraged to augment manpower allocation, and review the manpower planning for feasibility and efficiency.	Medium-term
Evaluate and implement proposed continuous improvement initiatives	M	<div>▶ Digital tools (e.g., Data Analytics & AI) may enhance the conduct of cost-benefit analyses and generate more robust outcomes. Job holders will need capabilities to interpret the outcomes and apply these to support the implementation process.</div> <div>▶ Job holders will need to have capabilities to interpret and translate data gathered from digital tools and platforms into proposals for continuous improvement initiatives. Job holders will also need an understanding of evolving trends and regulations (e.g., Common Data Environment) to effectively implement data and documentation management processes.</div>	Short-term
Drive safety and sustainability with organisational standards and guidelines	L	▶ Job holders will need to continue implementing organisational environmental sustainability and green building standards and guidelines, and be aware of relevant trends (e.g., sustainable construction, modular construction) in order to do so.	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		
Automated Process Design	Common Data Environment Management	Process Improvement and Optimisation
Robotic and Automation Technology Application	Technology Application	Technology Scanning
Emerging Technical Skills and Competencies		
Critical Thinking	Stakeholder Management	
Emerging Critical Core Skills		
Digital Fluency	Transdisciplinary Thinking	