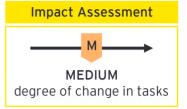
7.2.1 Job Dashboards

Site Supervisor/Trade Supervisor/Project Coordinator

Megatrends impacting the Job Role in Short to Medium-Term								
COVID-19	Multi-Skilling	Value Chain Aggregation & Integration	Workforce Challenges					
Technology Trends impacting the Job Role in Short to Medium-Term								
BIM Technology	Data Analytics & Al	Digital Twin	Remote Monitoring					
RPA	5G, IoT & Smart Buildings	Modular Construction						







In the Future

This job role is responsible for managing all aspects of the construction site, from site preparations to build-out. Job holders ensure that the construction, installation and assembly of components, equipment and systems are aligned with the construction plans and drawing designs.

This job role may leverage technology in managing construction site operations, in enabling efficient and seamless coordination and communication across various disciplines and construction teams. Job holders may need an understanding of technology application to perform monitoring and management of construction plans and drawing designs, ensure that they are aligned to and in adherence to time, cost and quality. Job holders may see continued emphasis on compliance to relevant regulatory and legislative requirements, and growing emphasis on adaptability in adopting and applying technology to enhance productivity.

Job Tasks Today	lm	npact at Task-level / Future view of Job Tasks	Time Horizon
Manage construction phase		 Job holders continue to be responsible for management of operations and associated risks and will see continued focus on compliance and risk management. 	
	М	▶ Job holders may be expected to utilise digital communication tools and platforms (e.g., BIM Technology, Digital Twin), and be aware of trends and technologies (e.g., DfMA) to manage coordination and communication across various disciplines and construction teams. Digital planning tools may also be utilised to augment the preparation of construction progress reports and documentation from project meetings through provision and availability of data, with job holders able to perform project management more effectively.	Short- term
		 Digital tools (e.g., Remote Monitoring, IoT) may also be leveraged to carry out inspections remotely. However, job holders may still need exposure to on-site activities to gain necessary construction site experience. 	
		► Job holders may need to stay up to date with the latest technological advancements and trends so as to effectively provide subcontractor guidance on technical aspects. Job holders may also leverage this information to identify relevant stakeholders for action items and follow-ups from project meetings.	





Global Case

Recommendations

Appendix

7.2.1 Job Dashboards

Executive Summary

Engineer/Assistant Engineer

Job Tasks Today	Impact at Task-level / Future view of Job Tasks		Time Horizon
Manage project completion and closure		Job holders will need to understand the application of digital tools and platforms (e.g., BIM Technology, AI) in augmenting the accuracy and speed of identification of errors, defects and variations based on construction plans and drawing designs.	Short- term
		Digitalisation of databases and documentation will require job holders to have an understanding of digital tools and platforms to prepare technical, project handover and closure documents.	
		▶ Job holders may also need to conduct research on latest techniques available, be aware of latest related developments that may drive alternative design and construction methods, hence impacting the management of testing and commissioning of components, equipment and systems.	

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

In-demand Technical Skills and Competencies									
Construction Technology	Critical Thinking	Design for Manufacturing and Assembly							
Project Risk Management	Regulatory Submission and Clearance	Stakeholder Management							
Technology Application									
Emerging Technical Skills and Competencies									
Data Collection and Analysis	Environmental Sustainability Management	Robotic and Automation Technology Application							
Emerging Critical Core Skills									
Digital Fluency Transdisciplinary Thinking									



