

7.2.1 Job Dashboards

Senior Quality Assurance Manager/Senior Quality Control Manager/Senior Planner

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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Impact Assessment

M

MEDIUM

degree of change in tasks

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	

Today

This job role is responsible for implementing all quality inspections on-site and off-site to ensure adherence to the relevant quality assurance requirements and regulatory guidelines. Job holders manage coordination across the production, quality assurance and quality control teams.

In the Future

This job role may leverage technology in increased ease and efficiency in overseeing quality inspections, enabled by technology (e.g., BIM, Remote Monitoring). Job holders may need an understanding and ability to apply technology to facilitate the review process that they are responsible for, to interpret data and dashboards, and evaluate effectiveness and adequacy of quality policies, and adherence of factory processes to quality assurance requirements and regulatory guidelines. Job holders may see growing emphasis on **keeping abreast of trends to implement environmental sustainability and green building standards and guidelines** in the course of their work.

Job Tasks Today	Impact at Task-level / Future view of Job Tasks		Time Horizon
Manage production planning, logistics and factory production	M	Job holders will continue to review production plans and logistics, and may need an understanding and operational competency in digital planning tools to perform the review process.	Short-term
	M	Digital tools (e.g., AI) may augment the review process of reports and plans for accuracy. Job holders will see a shift in focus in resolving issues arising from the review process and address any complications as a result of constant improvements in building designs (i.e., adoption of alternative design and construction methods) and its impact on the production process.	Short-term
Evaluate quality assurance and quality control plan	L	Job holders will continue to be responsible for the evaluation of quality assurance and quality control plans.	Short-term
	M	Job holders will need to continuously keep up to date with skills in-demand and apply the knowledge to ensure that quality personnel are adequately trained for their responsibilities.	Short-term

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Job Tasks Today	Impact at Task-level / Future view of Job Tasks		Time Horizon
Review continuous improvement initiatives	L	Job holders will continue to leverage their subject matter expertise in evaluating techniques applied to enhance and review improvement initiatives for the organisation's quality management system. Job holders will need to be aware of latest techniques for evaluation .	Short-term
Assess and develop reports for quality assurance processes	M	Digital tools (e.g., IoT, Data Analytics) may augment the production quality monitoring process. Job holders will need proficiency in interpreting monitoring data and identifying anomalies to determine production continuity and/or suspension.	Short-term
Determine strategies for quality control procedures	M	Job holders may require capabilities in interpreting gathered data enabled by technology (e.g., IoT) to determine and eliminate sources of quality problems .	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	Design for Manufacturing and Assembly	Process Optimisation
Emerging Technical Skills and Competencies		
Critical Thinking	Stakeholder Management	Technology Application
Technology Scanning		
Emerging Critical Core Skills		
Digital Fluency	Transdisciplinary Thinking	