

<b>SKILLS FRAMEWORK FOR BIOPHARMACEUTICALS MANUFACTURING</b> <b>SKILLS MAP – QUALITY ASSURANCE MANAGER</b>		
<b>Sector</b>	Biopharmaceuticals Manufacturing	
<b>Track</b>	Quality Assurance and Quality Control (QA&QC)	
<b>Occupation</b>	Manager	
<b>Job Role</b>	Quality Assurance Manager	
<b>Job Role Description</b>	<p>The Quality Assurance Manager translates the long-term goals for Quality Assurance (QA) into tactical plans while maintaining oversight of the department's operational and financial status. He/She endorses the Standard Operating Procedures (SOPs) for plants and reviews validation plans and procedures, ensuring alignment with Current Good Manufacturing Practices (CGMPs) and regulatory requirements, respectively. He defines the information required for new product registrations and facilitates registration applications to obtain approval for the release of biopharmaceutical products. He is responsible for building department personnel capability by initiating training programmes, and developing strategies to facilitate operational improvements for the department. The Quality Assurance Manager is responsible for all QA activities within the organisation. He is therefore required to have deep knowledge of regulatory requirements and expertise pertaining to verification of product and process quality for product release.</p> <p>The Quality Assurance Manager is a leader who provides clear guidance on critical work activities and deliverables, and has the foresight to develop skills and capabilities within and beyond the department to optimise resources, talent and overall performance. He also has the ability to develop creative solutions to resolve problems.</p>	
<b>Critical Work Functions and Key Tasks</b>	<b>Critical Work Functions</b>	<b>Key Tasks</b>
	Validate manufacturing methods and processes	Review and endorse validation Standard Operating Procedures (SOPs) and plans, ensuring alignment with regulatory requirements, Current Good Manufacturing Practices (CGMPs) requirements and the organisation's policies
		Devise an operational excellence model for validation of manufacturing methods and processes
		Oversee investigations into major process deviations to determine root causes
		Evaluate the impact of process deviations on production operations and the need for Corrective and Preventative Actions (CAPAs)
Facilitate registration and release of biopharmaceutical products	Review product and process quality metric reports	
	Define the information required and data integrity standards for new product registrations	
	Review and monitor product registration applications, ensuring alignment with regulatory requirements and other changes that may impact a product's registration status	

		Endorse Certificates of Analysis
		Approve batches for forward processing
	Facilitate achievement of quality expectations and standards	Liaise with customers in the event of major product quality deviations and product recalls
		Determine the extent of the plant's control over quality deviation
		Initiate product recall procedures and determine responsibilities and accountabilities of impacted organisational personnel
		Approve improvements to address identified product quality issues
		Translate internal and external audit policies into procedures and checks to be followed
		Review audit results and the proposed changes to procedures
		Develop training programmes for CGMPs, regulatory and other requirements in line with the training strategy
		Introduce additional training programmes to address gaps identified from audits and checks
		Optimise quality and efficiency of department workflows and activities
	Develop strategies for the QA department to encourage continuous improvement of QA procedures, activities and workflow management	
	Recommend changes to resources, procedures, systems, equipment, and technology within the QA department	
	Monitor effectiveness of improvements and changes made to QA activities and workflows	
	Manage Quality department operations	Communicate and implement QA strategies, objectives, policies and processes
		Translate long-term goals for the QA department into tactical plans
		Set and communicate individual objectives and review and assess the performance of direct reports
		Direct capability development roadmaps and programmes for the QA department
		Coordinate department resources to ensure adequate staffing and capability levels
		Maintain oversight of the completion of all QA tasks, ensuring proper documentation, progress tracking and reporting
Monitor the QA department's financial inflows and outflows against allocated budgets and forecasts		

	Technical Skills and Competencies		Generic Skills and Competencies (Top 5)			
	<b>Skills and Competencies</b>	Analytical Method Validation	Level 5	Decision Making	Advanced	
Audit Management		Level 5	Interpersonal Skills	Advanced		
Budgeting		Level 4	Leadership	Intermediate		
Business Continuity Management		Level 5	Problem Solving	Advanced		
Business Performance Management		Level 5	Resource Management	Advanced		
Change Management		Level 5				
Computer Systems Validation		Level 5				
Conflict Resolution		Level 5				
Continuous Improvement		Level 5				
Document Control		Level 4				
Good Manufacturing Practices Implementation		Level 5				
Health, Safety and Environment Procedures Implementation		Level 4				
Innovation Management		Level 5				
Pharmacovigilance Integration		Level 5				
Process Validation		Level 5				
Project Management		Level 5				
Quality Assurance Management		Level 5				
Risk Management		Level 5				
Strategy Development		Level 4				
Systems Thinking		Level 5				
Team Effectiveness Management	Level 5					
Technical Presentation	Level 5					
<b>Programme Listing</b>	For a list of Training Programmes available for the Biopharmaceuticals Manufacturing sector, please visit: <a href="http://www.skillsfuture.sg/skills-framework/biopharmmg">www.skillsfuture.sg/skills-framework/biopharmmg</a>					

The information contained in this document serves as a guide.