

SKILLS FRAMEWORK FOR FOOD MANUFACTURING SKILLS MAP - CHIEF RESEARCH AND DEVELOPMENT OFFICER				
<b>Sector</b>	Food Manufacturing			
<b>Track</b>	Research and Development			
<b>Occupation</b>	Food Science Professional			
<b>Job Role</b>	<b>Chief Research and Development Officer</b>			
<b>Job Role Description</b>	<p>The Chief Research and Development (R&amp;D) Officer leads research for the adoption of new technology and equipment to enhance the organisation's operational excellence and business competitiveness. He/She advises on advanced methods and techniques to design new food products and/or enhance processes for improved production capacity and capabilities. He approves the specifications of final products, packaging and processes to meet the required technical, quality and regulatory standards.</p> <p>At the organisational level, he designs the technology and innovation roadmap and drives continuous improvement strategies by leveraging on his strong domain knowledge in food science technology. He should possess a strong interest in new technology and advances in food science to fulfil his responsibility in delivering innovative and competitive solutions and overseeing all R&amp;D projects. He is a strategic and creative thinker, who demonstrates exceptional problem-solving and communication skills, and networks effectively.</p>			
<b>Critical Work Functions and Key Tasks</b>	<b>Critical Work Functions</b>	Innovate new food products	<b>Key Tasks</b>	<b>Performance Expectations (For legislated / regulated occupations)</b>
			Drive technical innovations to differentiate products, processes or packaging	
			Lead innovation in new technologies for product innovation and production processes	
	Operationalise manufacturing of new products	Build business cases for implementing new technologies in partnership with other enterprises		
		Oversee modelling and implementation of manufacturing processes for new products		
		Establish and integrate organisational quality policies, food safety and regulatory requirements into innovation strategies and manufacturing of new products		
	Conceptualise marketing for products	Evaluate outcomes of new products and processes to deliver improved business results from the innovation		
		Set direction for enhancing business competitiveness in the development of new products		
	Drive innovation and research	Drive improvements in conceptualisation of "product stories" to support organisational initiatives in capturing new markets		
		Evaluate benefits, trade-offs and impact of new technologies in production		
Formulate innovation initiatives aligned to the organisation's vision, mission and values				
Develop and execute organisational innovation and research roadmaps				
<b>Skills &amp; Competencies</b>	<b>Technical Skills and Competencies</b>		<b>Generic Skills and Competencies (Top 5)</b>	
	Active and Smart Packaging	Level 6	Decision Making	Advanced
	Advanced Processing Technology	Level 6	Global Mindset	Advanced
	Budgeting	Level 5	Leadership	Advanced
	Business Continuity Management	Level 5	Interpersonal Skills	Advanced
	Business Performance Management	Level 6	Communication	Advanced
	Change Management	Level 6		
	Chemical Risk Management	Level 5		
	Conflict Resolution	Level 5		
	Continuous Process Improvement	Level 5		
	Data Analytics System Design	Level 5		
	Data Synthesis	Level 6		
	Document Control	Level 4		
	Emergency Response Management	Level 2		
	Food Manufacturing Process Design	Level 6		
	Food Safety Management	Level 4		
	Good Manufacturing Practices Implementation	Level 5		

	Green Manufacturing Design and Implementation	Level 5	
	Hazards and Risk Control, and Policy Management	Level 3	
	Innovation Management	Level 6	
	International Trade Legislation for Business	Level 2	
	Laboratory Management	Level 5	
	New Product Introduction for Food	Level 5	
	Packaging Testing	Level 5	
	Process Validation	Level 5	
	Product Testing	Level 5	
	Production Performance Management	Level 5	
	Project Management	Level 6	
	Quality Assurance Management	Level 5	
	Quality Control Management	Level 5	
	Quality System Management	Level 5	
	Risk Management	Level 6	
	Stakeholder Management	Level 5	
	Strategy Development	Level 6	
	Systems Thinking	Level 5	
	Technical Presentation	Level 6	
	Technical Report Writing	Level 4	
	WSH Performance Management	Level 2	
<b>Programme Listing</b>	For a list of Training Programmes available for the Food Manufacturing sector, please visit: <a href="http://www.skillsfuture.sg/skills-framework/foodmfg">www.skillsfuture.sg/skills-framework/foodmfg</a>		

The information contained in this document serves as a guide.