

**SKILLS FRAMEWORK FOR FOOD MANUFACTURING  
TECHNICAL SKILLS & COMPETENCIES (TSC) REFERENCE DOCUMENT**

<b>TSC Category</b>	Manufacturing and Operations					
<b>TSC</b>	Food Manufacturing Facility Maintenance					
<b>TSC Description</b>	Manage and enhance facility systems to support product manufacturing and business operations					
<b>TSC Proficiency Description</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Level 4</b>	<b>Level 5</b>	<b>Level 6</b>
		<b>FMF-OPR-2034-1.1</b>	<b>FMF-OPR-3034-1.1</b>	<b>FMF-OPR-4034-1.1</b>	<b>FMF-OPR-5034-1.1</b>	
		Interpret fault codes to identify possible faults in manufacturing plants' facility systems and take recovery measures	Coordinate facility system maintenance to uphold system performance during manufacturing operations	Manage day-to-day operations, maintenance and troubleshooting of facility systems	Enhance facility system performances, through analyses of performance metrics and improvement projects	
<b>Knowledge</b>		<ul style="list-style-type: none"> <li>Types of distribution systems and networks</li> <li>Distribution systems' and networks' functions and operating principles</li> <li>Types of warning devices and fault indicators</li> <li>Fault diagnostic procedures</li> <li>Testing procedures</li> </ul>	<ul style="list-style-type: none"> <li>Facility systems' operation and safety requirements</li> <li>Functionalities of different facility systems</li> <li>Building control systems</li> <li>Concepts and application of maintenance procedures on facility systems</li> <li>Types of stakeholders related to food manufacturing</li> <li>Audits, inspections and required reporting to stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>Types of distribution systems and networks</li> <li>Distribution system and network maintenance</li> <li>Types of performance metrics and monitoring parameters</li> <li>Incident escalation procedures</li> <li>Troubleshooting techniques of systems and networks</li> <li>Workplace safety and health (WSH) and food safety requirements</li> <li>Interests of stakeholders related to food manufacturing</li> </ul>	<ul style="list-style-type: none"> <li>Problem-solving techniques</li> <li>Facility system performance metrics</li> <li>Facility system enhancements</li> <li>Types of distribution systems and networks supporting the organisation's manufacturing plants and production lines</li> </ul>	
<b>Abilities</b>		<ul style="list-style-type: none"> <li>Perform daily operational checks and inspections on utilities distribution systems and networks</li> <li>Apply appropriate techniques to determine faults</li> <li>Interpret fault codes from alarm panels</li> <li>Rectify faults using correct techniques, procedures, tools and equipment</li> </ul>	<ul style="list-style-type: none"> <li>Identify facility system functions in manufacturing processes</li> <li>Prepare facility systems for basic maintenance</li> <li>Perform facility system maintenance</li> <li>Verify facility system performance</li> <li>Prepare review and audit reports for food manufacturing regulatory stakeholders</li> </ul>	<ul style="list-style-type: none"> <li>Identify types of distribution systems and networks used within the food manufacturing plant</li> <li>Verify distribution system and network performance levels</li> <li>Set up distribution systems and networks for operational readiness</li> <li>Coordinate with food manufacturing regulatory stakeholders on audit, inspection and certification matters</li> </ul>	<ul style="list-style-type: none"> <li>Analyse facility system performance metrics in accordance with specifications</li> <li>Select appropriate projects to enhance facility system performance</li> <li>Define project scope of work and the number of hours based on business requirements</li> <li>Execute project in accordance with project plans</li> </ul>	

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		<ul style="list-style-type: none"> <li>Verify distribution systems and network performance</li> </ul>			<ul style="list-style-type: none"> <li>Coordinate with food manufacturing regulatory stakeholders on licensing, certification, commissioning and other matters relating to facility enhancements</li> <li>Evaluate project effectiveness in accordance with project objectives</li> <li>Recommend follow-up actions</li> </ul>	
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