

**SKILLS FRAMEWORK FOR PRECISION ENGINEERING  
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE DOCUMENT**

<b>TSC Category</b>	Production Management					
<b>TSC</b>	Production Planning					
<b>TSC Description</b>	Establish and implement strategic production planning and scheduling to meet production targets and cycle time indices					
<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>PRE-OPR-3054-1.1</b>	<b>PRE-OPR-4054-1.1</b>	<b>PRE-OPR-5054-1.1</b>	
			Interpret production plans and schedules to coordinate production activities	Establish production plans and schedules to meet production objectives and targets	Align and integrate production plans within department, across departments, and with organisational business priorities	
<b>Knowledge</b>			<ul style="list-style-type: none"> <li>Principles of production cycle times</li> <li>Principles of production planning</li> <li>Methods of interpreting production schedules</li> <li>Concept of equipment capacity and methods to verify feasibility of achieving production quantities and for timelines</li> <li>Methods for monitoring actual to planned production</li> <li>Recording requirements and practices</li> <li>Methods and techniques for dealing with production difficulties</li> <li>Methods of maximising resource utilisation and minimising waste, including alternate resource allocation in response to unplanned events</li> <li>Principles of production planning and scheduling management</li> </ul>	<ul style="list-style-type: none"> <li>Strategies and methods for production planning and scheduling</li> <li>Types of production processes, methods, products and their interdependencies</li> <li>Characteristics of raw materials and ingredients, packaging components and consumables</li> <li>Methods for managing the flow of information between processes to be scheduled, and related purchasing and despatch departments</li> <li>Methods of determining time and resource requirements for production activities and processes</li> <li>Potential disruptions resulting from the implementation of new production schedules</li> <li>Risk factors and risk mitigation techniques in production planning</li> </ul>	<ul style="list-style-type: none"> <li>Organisational business priorities and impact on plant production output</li> <li>Principles and techniques in resource management</li> <li>Inter-dependencies among various production activities</li> <li>Inter-dependencies among operations of the production department and other departments</li> </ul>	

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			<ul style="list-style-type: none"> <li>• Methods of preparing and analysing forecast projections and building into production planning schedules</li> <li>• Methods of building production risk into schedules</li> </ul>	<ul style="list-style-type: none"> <li>• Unusual and unplanned conditions that can affect the achievement of schedules</li> <li>• Principles and techniques of contingency planning</li> <li>• Consequences of failing to meet delivery timelines, including stock-out fines</li> </ul>		
<b>Abilities</b>			<ul style="list-style-type: none"> <li>• Analyse past production rates and articulate impact on new production plans</li> <li>• Present data and analyses to support and maximise accuracy of forecasts</li> <li>• Plan production activities and timelines according to organisational requirements and resource availability</li> <li>• Communicate production plans to relevant personnel</li> <li>• Manage resources and manpower required to meet schedule</li> <li>• Monitor actual production rates against plan and adjust as necessary</li> </ul>	<ul style="list-style-type: none"> <li>• Identify production priorities to meet customer and market expectations and set targets</li> <li>• Forecast production demand against internal capacity and resources</li> <li>• Identify and confirm resource requirements</li> <li>• Formulate production plans, highlighting key timelines, deliverables and accountabilities</li> <li>• Define production targets required to meet cycle time indices</li> <li>• Develop schedules to match production priorities</li> <li>• Schedule planned shutdowns at suitable times</li> <li>• Adjust production schedules in response to typical and atypical variables</li> <li>• Respond to unplanned events to minimise disruptions and optimise efficiency</li> <li>• Track and investigate variances to production plans</li> </ul>	<ul style="list-style-type: none"> <li>• Define production priorities to meet business strategies</li> <li>• Resolve conflicting demands among different production teams and activities</li> <li>• Evaluate production and cycle time performance against production plans</li> <li>• Drive production planning and scheduling improvement projects</li> <li>• Identify potential planning and scheduling problems and produce appropriate contingency plans</li> <li>• Liaise with production departments to maintain current and future planning objectives</li> </ul>	

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