<table>
<thead>
<tr>
<th>TSC Category</th>
<th>Supply Chain and Production Planning Management</th>
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<tbody>
<tr>
<td>TSC</td>
<td>Production Planning and Scheduling</td>
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<tr>
<td>TSC Description</td>
<td>Establish and implement strategic production planning and scheduling to meet production targets and cycle time indices</td>
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<tr>
<th>TSC Proficiency Description</th>
<th>Level 1</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Level 4</th>
<th>Level 5</th>
<th>Level 6</th>
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<td>ECM-SCP-3003-1.1</td>
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<td>ECM-SCP-5003-1.1</td>
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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 a department, across departments, and with organisational business priorities

Knowledge

- Principles of production cycle times
- Principles of production planning
- Methods of interpreting production schedules
- Concept of equipment capacity and methods to verify feasibility of achieving production quantities and for timelines
- Methods for monitoring actual to planned production
- Recording requirements and practices
- Methods and techniques for dealing with production difficulties
- Methods of maximising resource utilisation and minimising waste, including alternate resource allocation in response to unplanned events
- Principles of production planning and scheduling management
- Strategies and methods for production planning and scheduling
- Types of production processes, methods, products and their inter-dependencies
- Characteristics of raw materials and ingredients, packaging components and consumables
- Methods for managing the flow of information between processes to be scheduled, and related purchasing and despatch departments
- Methods of determining time and resource requirements for production activities and processes
- Potential disruptions resulting from the implementation of new production schedules
- Organisational business priorities and impact on plant production output
- Principles and techniques in resource management
- Inter-dependencies among various production activities
- Inter-dependencies among operations of the production department and other departments
### Methods of preparing and analysing forecast projections and building into production planning schedules

- Methods of building production risk into schedules

### Unusual and unplanned conditions that can affect the achievement of schedules

- Principles and techniques of contingency planning

### Consequences of failing to meet delivery timelines, including stock-out fines

- Analyse past production rates and articulate impact on new production plans

- Present data and analyses to support and maximise accuracy of forecasts

- Plan production activities and timelines according to organisational requirements and resource availability

- Communicate production plans to relevant personnel

- Manage resources and manpower required to meet schedules

- Monitor actual production rates against plans and adjust as necessary

### Identify production priorities to meet customer and market expectations, and set targets

- Forecast production demand against internal capacity and resources

- Identify and confirm resource requirements

- Formulate production plans, highlighting key timelines, deliverables and accountabilities

### Define production priorities to meet business strategies

- Define production targets required to meet cycle time indices

- Develop schedules to match production priorities

- Schedule planned shutdowns at suitable times

- Adjust production schedules in response to typical and atypical variables

- Respond to unplanned events to minimise disruptions and optimise efficiency

- Track and investigate variances to production plans

### Abilities

- Present data and analyses to support and maximise accuracy of forecasts

- Plan production activities and timelines according to organisational requirements and resource availability

- Communicate production plans to relevant personnel

- Manage resources and manpower required to meet schedules

- Monitor actual production rates against plans and adjust as necessary

### Define production priorities to meet business strategies

- Resolve conflicting demands among different production teams and activities

- Evaluate production and cycle time performance against production plans

- Drive production planning and scheduling improvement projects

- Identify potential planning and scheduling problems and produce appropriate contingency plans

- Liaise with production departments to maintain current and future planning objectives
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<th>Follow review procedures to identify opportunities to improve scheduling processes</th>
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