

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

TSC Category	Production Management					
TSC	Production Resource Management					
TSC Description	Plan and control capacity and quality issues to meet organisational needs as well as schedule resources to synchronise production processes					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			PRE-OPR-3011-1.1	PRE-OPR-4011-1.1	PRE-OPR-5011-1.1	PRE-OPR-6011-1.1
			Implement various operational processes and resource plans relating to the operation of a plant	Develop production forecasting model and review modelling results	Formulate resource plans to control the scheduling of time and resources for production to ensure allocated resources are capable of meeting the production requirements	Synergise business systems by creating flexible production and manpower systems
Knowledge			<ul style="list-style-type: none"> • Operational and process requirements • Method of planning activities • Risk assessments necessary for the operation of resource plans • Importance of effective time management when following resource plans • Reasons for sequencing tasks • Identification of undesirable interruptions to planned work 	<ul style="list-style-type: none"> • Concept of work-in-progress (WIP) management • Concept of cycle times • Production scheduling 	<ul style="list-style-type: none"> • Information on production activities and schedules • Factors to be taken into account when preparing the schedules • Methods to assess and schedule resource requirements • Methods and techniques for capacity planning • Process used to validate production schedules • Methods to develop contingency plans • Methods of evaluating the consequences of schedule changes • Methods for recovery of losses from project schedule deviations • Problems that occur during the implementation of production schedules 	<ul style="list-style-type: none"> • Methods to plan the resources and time needed to carry out activities • Information required to create level schedules, load and capacity, TAKT time and batch sizes • Methods to simplify working practices and reduce human error risks • Consequences of introducing a new improved parts and/or processes and/or material routers • Problem solving and root cause analysis methods • Eight wastes and how to eliminate them • Methods to optimise equipment effectiveness • Procedure to conduct a review of asset care and/or best practice effectiveness • Methods to lay out an effective workplace

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						using recognised techniques
Abilities			<ul style="list-style-type: none"> Analyse operational and process requirements Assist in the procurement and allocation of resources Monitor outcomes of implementing operational process and resource planning Report results achieved against targets 	<ul style="list-style-type: none"> Identify production indices Set up production forecasting models Execute production forecasting models Compile and validate modelling results Determine follow-up actions from production forecasting models 	<ul style="list-style-type: none"> Prepare and review production schedules Ensure sufficient resources are available for production Produce contingency plans to handle actual and predicted changes in the planned use of resources Validate and evaluate scheduling systems and procedures used 	<ul style="list-style-type: none"> Direct the application of the principles and processes of creating flexible production and manpower systems to the chosen activity Direct the creation of level schedules for parts in the work area Direct the production of a local workforce flexibility matrix Oversee the production of a visual representation identifying resources that do not meet the TAKT requirements Implement a visually controlled system based on the demand of subsequent processes for the chosen parts Evaluate improvement opportunities and waste which may need to be removed in order to achieve TAKT time and flow processing