

TSC Category	Process Operations Management					
TSC	Feedstock and Product Transfer Operations Management					
TSC Description	Perform feedstock and product transfer and blending for continuous and/or batch processes to meet operational requirements					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
	ECM-POM-1003-1.1	ECM-POM-2003-1.1	ECM-POM-3003-1.1	ECM-POM-4003-1.1	ECM-POM-5003-1.1	
	Identify appropriate operational procedures for feedstock and product transfer and blending to assist with continuous and/or batch operations	Apply operational procedures for feedstock and product transfer and blending to operate continuous or batch operations	Interpret operating procedures to monitor and control feedstock and product transfer and blending operations to meet operational requirements	Develop Standard Operating Procedures (SOPs) and control of work processes to supervise feedstock and product transfer and blending operations in safe and reliable operating conditions	Review Standard Operating Procedures (SOPs) and control of work processes to manage feedstock and product transfer and blending operations within design operating parameters	
Knowledge	<ul style="list-style-type: none"> • Safe operating procedures • Batch and continuous operation processes • Types of storage systems • Mixing technologies • Safety Data Sheets (SDS) and hazards associated with handling of chemicals • Methods of handling dangerous materials and legislative requirements • Types and functions of material handling and transporting equipment, conveyors, and pallets used in a batch process • Methods and techniques of lifting and moving loads 	<ul style="list-style-type: none"> • Types of in-tank blending systems • Types of in-line blending systems • Types of continuous and batch processing equipment • Methods of blending ratios and formulas • Flow measuring and metering systems • Instrument and control systems • Safety Data Sheets (SDS) and hazards associated with handling of chemicals • Types and functions of material handling and transporting equipment • Types of material control documentation for continuous and batch processes • Handling of dangerous materials and legislative requirements 	<ul style="list-style-type: none"> • Continuous and batch process operating procedures • Types of instrumentation, electrical and mechanical components • Types of monitoring and control systems • Types of flow measuring and metering systems • Properties of chemical materials • Blending technologies and techniques • Methods of using engineering documentation to assist monitoring, control and troubleshooting • Automated replenishment methods 	<ul style="list-style-type: none"> • Least cost formulation models • Blending specifications • Feedstock properties • Blending times and optimisation • Chemistry and types of chemical reactions • Methods of systematic approach to troubleshooting • Workflow management methods • Automated replenishment systems and tool applications 	<ul style="list-style-type: none"> • Operational workflow management • Lean manufacturing techniques and principles • Operational excellence principles and practices • Goal setting and key performance indicators (KPIs) • Decision making and decision analysis techniques • Continuous Improvement principles and practices • New technology developments in blending, transfer, storage and automated replenishment systems 	

		<ul style="list-style-type: none"> Continuous and batch production preparation 				
Abilities	<ul style="list-style-type: none"> Perform blend sampling and testing Assist in operation line-up for feedstock and product transfer and blending Carry out field preparation to start and/or stop pumping and transfer equipment Perform lifting and moving of loads Perform recording of field process parameters and equipment status 	<ul style="list-style-type: none"> Perform pre-start-up checks and preparation for starting feedstock transfer and blending process units Perform start and/or stop of rotating equipment Perform start-up and shutdown actions for process equipment and process units following Standard Operating Procedures (SOPs) Monitor and control continuous and batch processes 	<ul style="list-style-type: none"> Operate, monitor and control continuous and batch processes using process control systems and local interface units Perform troubleshooting for continuous and batch processes and equipment Oversees process quality control parameters Coordinate the use of automated replenishment systems and tools 	<ul style="list-style-type: none"> Oversee feedstock and blending operation activities Ensure feedstock and products meet operational requirements Lead process troubleshooting for feedstock and product transfer and blending operations Monitor blend quality assurance processes Coordinate with business support departments to manage feedstock supply and product discharge Supervise the use of automated replenishment systems and tools 	<ul style="list-style-type: none"> Manage feedstock and product transfer operations Optimise feedstock and product blending and transfer operations Conduct troubleshooting and fault-finding on systems Make critical decisions to resolve feedstock transfer issues Lead continuous improvement activities Review and endorse new technology applications in blending, transfer, storage and automated stock replenishment systems 	