TSC Category	General Management					
TSC	Systems Thinking					
TSC Description	Integrate understanding of manufacturing with interactions between components when developing manufacturing processes or overseeing manufacturing activities					
TSC Proficiency Description	**Level 1**	**Level 2**	**Level 3**	**Level 4**	**Level 5**	**Level 6**
		FMF-BIN-2120-1.1	**FMF-BIN-3120-1.1**	**FMF-BIN-4120-1.1**	**FMF-BIN-5120-1.1**	
		Identify interdependencies within manufacturing processes and apply knowledge in day-to-day work	Identify how isolated interventions may impact product quality as a whole	Predict changes to processes and interdependencies over time	Formulate effective strategies targeting management of complex and interdependent manufacturing processes	
Knowledge		• Manufacturing processes and equipment • Systems thinking tools and methodologies • Application of systems thinking principles	• Manufacturing interventions • Manufacturing process and equipment changes • Common process interdependence issues	• Business strategy and objectives • Market conditions • Emerging manufacturing trends and new technology • Forecasting tools and methodologies	• Culture and change management • Strategies to manage process complexities and interdependencies • Advanced troubleshooting and diagnostic methodologies	
Abilities		• Recall the end-to-end manufacturing to identify process steps • Identify how individual and team actions may impact manufacturing results • Identify how different stages of the manufacturing process can impact one another • Describe inter-dependencies within manufacturing processes • Apply a broader perspective to suggest improvements to be made within own work area	• Frame current issues in the context of the end-to-end manufacturing process to facilitate decision making • Interpret complex interdependencies within the manufacturing processes to support effective decisions regarding interventions and changes • Envision the big picture and how isolated areas impact the process as a whole • Identify potential domino effects or chain reactions caused by new process steps or decisions	• Forecast the long term business impact of proposed interventions and changes • Predict changes to processes and interdependencies overtime as a result of operational needs and market constraints • Leverage interdependencies to suggest tweaks to interventions and changes for greater impact and more controlled outcomes	• Inspire culture and habit of broad, integrated systems thinking within the organisation • Anticipate wider organisational implications of changing or introducing new processes • Develop effective strategies targeting management of complex and interdependent manufacturing processes • Project the short and longer term impact of interventions and changes • Diagnose complex manufacturing issues by comprehensively evaluating a broad range of variables	

Effective Date: June 2018, Version 1.1