

TSC Category	Health, Safety and Environment Management					
TSC	Green Manufacturing Design and Implementation					
TSC Description	Integrate environmental sustainability through the development, implementation and review of sustainability strategies and programmes that reduce waste, conserve energy, and use replacements for hazardous substances.					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			AER-MPR-3012-1.1-1	AER-MPR-4012-1.1-1	AER-MPR-5012-1.1	AER-MPR-6012-1.1
			Analyse energy consumption, waste generation, emissions and other relevant data impacting green initiatives and discover alternatives to hazardous substances	Develop ways to reduce waste, conserve energy, in line with green strategies	Evaluate green process designs for alignment with the organisation's strategies and values	Establish the organisation's green strategies and values
Knowledge			<ul style="list-style-type: none"> National Environment Agency (NEA) regulations on pollution control Types of waste and trade effluents Types of emissions and pollutions generated through operations Types of hazardous substances used in operations Types of equipment used for measuring waste generation, emissions and other elements impacting the environment Procedures for operating equipment used for measuring waste, emissions and other elements impacting the environment Methods of collecting and analysing data Methods of conducting environmental modelling Facility's products and workflow processes 	<ul style="list-style-type: none"> Legislative green codes, regulations and industry guidelines Methods to minimise waste and conserve energy used in operations New industry trends, technologies and innovations in green initiatives Best practices and trends in green initiatives Pros, cons and applications of different environmental modelling software and techniques 	<ul style="list-style-type: none"> Site management operating procedures Cost and operational implications of green initiatives Business impact of different green initiatives and technologies in the industry Business case formulation techniques 	<ul style="list-style-type: none"> Organisation's vision, mission and values Macro factors impacting the demand or need for environmentally-friendly operating processes Methods of establishing clean energy initiatives Principles of change management Methods of ensuring long-term sustainability of new processes Research and development (R&D) processes in green initiatives

**SKILLS FRAMEWORK FOR AEROSPACE
TECHNICAL SKILLS AND COMPETENCIES (TSC) REFERENCE**

			<ul style="list-style-type: none"> Principles of green chemistry 			
Abilities			<ul style="list-style-type: none"> Identify relevant data for calculating waste and emissions Collaborate with stakeholders to collect relevant data according to business priorities Operate emissions, performance parameters and waste measuring equipment as per the specified procedures and guidance Apply appropriate data analysis tools and software to conduct environmental modelling Conduct research on alternatives to hazardous substances Identify areas of improvement 	<ul style="list-style-type: none"> Formulate interventions to reduce waste and emissions Guide the development of operational processes that reduce waste and environmental impact, or conserve energy Select appropriate environmental modelling tools and software Direct research and analysis of alternatives to hazardous substances Collaborate with research and development (R&D) function to identify alternative sources of materials and processes for greater sustainability 	<ul style="list-style-type: none"> Evaluate feasibility and impact of different types of green initiatives against any cost or operational implications Facilitate the review of procedures and processes to align with green initiatives Evaluate operational process design parameters and suggest improvements to drive green initiatives Drive collaboration between research and development (R&D) and organisational functions to find green solutions Develop business cases for implementation of environmentally-friendly business practices 	<ul style="list-style-type: none"> Formulate green initiatives aligned to the vision, mission and values of the organisation Establish the facility's priorities in green initiatives and environmental impact management Drive innovation in areas aligned to reducing the negative environmental impact