

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

TSC Category	Engine Manufacturing and Maintenance					
TSC	New Engine Build Process Application					
TSC Description	Apply new engine build processes for a production environment that includes designs for assembly, workplace design and layout, tooling, equipment and build process specifications and quality control in compliance with organisational procedures and regulatory requirements					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
			AER-MPR-3045-1.1	AER-MPR-4045-1.1		
			Apply engine build processes to production environment and comply with production organisation regulatory requirements	Interpret roles of relevant airworthiness authorities and applicable regulations to ensure compliance with production organisation regulatory requirements		
Knowledge			<ul style="list-style-type: none"> • Airworthiness authorities and applicable regulations • Production organisation regulatory requirements • Principles of design for assembly • Assembly processes • Manufacturing execution systems (MES) • Lean principles and techniques in workplace and impact on quality and productivity • Engine tooling, equipment and build process specifications • Engine certification and release • Documentation requirements • Organisational quality systems, procedures and policies 	<ul style="list-style-type: none"> • Roles of various airworthiness authorities • Applicable regulations imposed by airworthiness authorities on approved production organisation • Assembly processes • Engine build process specifications • Quality systems and obligations • Quality control management • Principles and concepts of manufacturing and production systems • Requirements for engine certification and release • Documentation requirements • Workplace safety practices 		
Abilities			<ul style="list-style-type: none"> • Apply engine build processes to production • Interpret basic principles of design for assembly • Demonstrate elements of using manufacturing execution systems 	<ul style="list-style-type: none"> • Interpret roles of various airworthiness authorities • Interpret applicable regulations imposed by airworthiness authorities • Assess quality systems and obligations of organisation 		

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			<ul style="list-style-type: none"> • Align engine tooling and equipment to build process specifications • Comply with production organisation regulatory requirements • Apply lean principles in workplace design and layout • Apply lean techniques at the workplace • Process required documentation in accordance with organisational procedures and regulatory requirements • Administer quality control at all stages of engine build 	<ul style="list-style-type: none"> • Evaluate quality control administered at all stages of engine build • Review requirements for documentation in accordance with organisational procedures and regulatory requirements • Assess requirements for engine certification and release • Ensure safety practices are carried out in the workplace 		
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