

**SKILLS FRAMEWORK FOR AIR TRANSPORT
TECHNICAL SKILLS & COMPETENCIES (TSC) REFERENCE DOCUMENT**

TSC Category	Airport Engineering					
TSC	Engineering Safety and Security Standards					
TSC Description	Design and execute safety and security policies to promote safe working environments for engineering projects					
TSC Proficiency Description	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
		ATP-APE-2006-1.1	ATP-APE-3006-1.1	ATP-APE-4006-1.1	ATP-APE-5006-1.1	ATP-APE-6006-1.1
		Adhere to policies and procedures to maintain safety and security in the delivery of engineering works	Review completed engineering works to ensure adherence to safety and security audits	Manage safety, security and risk assessments on engineering works and present findings for further actions	Develop new initiatives to improve effectiveness of safety and security performance indicators	Drive strategies to enforce safety and security when delivering engineering works
Knowledge		<ul style="list-style-type: none"> Principles and techniques of safety management Types of safety and security threats Safety and security standards of the organisation Roles and responsibilities of departments and/or stakeholders during safety and/or security breaches 	<ul style="list-style-type: none"> Principles and techniques of safety management Types of safety and security threats Safety and security standards of the organisation Roles and responsibilities of departments and/or stakeholders during safety and/or security breaches Risk assessment frameworks and tools Local and international guidelines such as International Civil Aviation Organisation (ICAO) Annex for Security 	<ul style="list-style-type: none"> Principles and techniques of safety management Safety and security standards of the organisation Roles and responsibilities of departments and/or stakeholders during safety and/or security breaches Human factors and their impact on safety and security Safety and security audit frameworks and procedures Risk assessment frameworks and tools Disciplinary policies for safety and security breaches of the organisation Local and international guidelines such as International Civil Aviation Organisation (ICAO) Annex for Security 	<ul style="list-style-type: none"> Principles and techniques of safety management Safety and security standards of the organisation Human factors and their impact on safety and security Safety and security performance indicators Stakeholder management Local and international guidelines such as International Civil Aviation Organisation (ICAO) Annex for Security 	<ul style="list-style-type: none"> Principles and techniques of safety management Safety and security standards of the organisation Safety Management Systems (SMS) Latest regulatory changes in aviation safety and security Emerging technologies to enhance safety and security in engineering projects Stakeholder management Local and international guidelines such as International Civil Aviation Organisation (ICAO) Annex for Security

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<p>Abilities</p>		<ul style="list-style-type: none"> • Conduct organisational safety and security procedures when delivering engineering projects • Liaise with relevant stakeholders and/or departments in the event of safety and security breaches 	<ul style="list-style-type: none"> • Review the performance and completion of job tasks to ensure adherence to safety and security requirements • Identify safety and security breaches and report to higher authorities • Participate in and assist in the preparation of risk assessment reports 	<ul style="list-style-type: none"> • Perform risk assessment and risk monitoring • Assess engineering projects using safety and security audit management frameworks to identify breaches and potential hazards • Analyse safety and security breaches to identify the root causes of breaches • Recommend corrective actions to minimise safety and security breaches and mitigate risks of potential hazards 	<ul style="list-style-type: none"> • Update manuals and safety and security procedures of the organisation to incorporate new regulatory requirements and corrective actions • Analyse data to track safety and security performance of engineering projects • Evaluate findings against established performance indicators to pinpoint areas for improvements • Develop new initiatives to enhance the effectiveness of safety and security measures in engineering projects • Gauge the impact of new initiatives and quality control measures on different stakeholders and/or departments 	<ul style="list-style-type: none"> • Drive the development of safety and security strategies for engineering works and projects to ensure alignment with organisational standards • Integrate technologies to enhance safety and security policies for engineering projects • Elucidate and put forth the impact of safety and security strategies to relevant stakeholders and/or departments
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