

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

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| TSC Category | Safety and Security Management | | | | | |
| TSC | Personnel and Equipment Operational Readiness | | | | | |
| TSC Description | Maintain and enhance operational readiness of personnel and equipment to respond to emergency situations in line with established performance standards | | | | | |
| TSC Proficiency Description | Level 1 | Level 2 | Level 3 | Level 4 | Level 5 | Level 6 |
| | | ATP-SSM-2007-1.1 | ATP-SSM-3007-1.1 | ATP-SSM-4007-1.1 | ATP-SSM-5007-1.1 | |
| | | Inspect emergency response vehicles and equipment against operational readiness standards | Administer maintenance operations to maintain the operational readiness of emergency response vehicles and equipment | Analyse operational readiness of emergency response personnel, vehicles and equipment | Develop strategies to enhance operational readiness of emergency response personnel, vehicles and equipment | |
| Knowledge | | <ul style="list-style-type: none"> Types of emergency response vehicles and equipment Operational readiness standards for emergency response vehicles and equipment Maintenance principles for different types of emergency response vehicles and equipment Routine maintenance procedures of the organisation Local and international guidelines such as Civil Aviation Authority of Singapore (CAAS) Manual of Aerodrome Standards (MOAS) | <ul style="list-style-type: none"> Maintenance principles for different types of emergency response vehicles and equipment Techniques to troubleshoot faults found in emergency response vehicles and equipment Common faults affecting functionality of emergency response vehicles and equipment Local and international guidelines such as Civil Aviation Authority of Singapore (CAAS) Manual of Aerodrome Standards (MOAS) | <ul style="list-style-type: none"> Performance standards of emergency response vehicles and equipment Maintenance principles for different types of emergency response vehicles and equipment Personnel training requirements Training needs analysis Local and international guidelines such as Civil Aviation Authority of Singapore (CAAS) Manual of Aerodrome Standards (MOAS) | <ul style="list-style-type: none"> Performance standards of emergency response vehicles and equipment New technologies to enhance operational readiness of emergency response personnel, equipment and vehicles International best practices in emergency preparedness and response Local and international guidelines such as Civil Aviation Authority of Singapore (CAAS) Manual of Aerodrome Standards (MOAS) | |
| Abilities | | <ul style="list-style-type: none"> Test operational readiness of emergency response vehicles and equipment against standards Conduct stock-taking to assess sufficiency of resources | <ul style="list-style-type: none"> Assess faults in emergency response vehicles and equipment Examine the impact of faults found in emergency response vehicles and equipment on operational readiness | <ul style="list-style-type: none"> Evaluate the operational readiness of emergency response personnel, vehicles and equipment against established performance standards Determine additional maintenance needs to improve the operational | <ul style="list-style-type: none"> Gauge the effectiveness of maintenance works on emergency response vehicles and equipment Lead follow-up actions on upgrade, acquisition and disposal of emergency response vehicles and equipment | |

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| | | <ul style="list-style-type: none"> • Highlight emergency response vehicles and equipment maintenance requirements to superiors and/or relevant authorities • Document findings from inspections according to requirements in operational logbooks | <ul style="list-style-type: none"> • Take actions to restore emergency response vehicles and equipment to optimal operational readiness levels • Plan maintenance schedules for emergency response vehicles and equipment to ensure frequent maintenance checks | <p>readiness of emergency response vehicles and equipment</p> <ul style="list-style-type: none"> • Assess personnel operational readiness and ascertain training needs to improve personnel operational readiness • Develop simulated training exercises to reinforce operational readiness of personnel | <ul style="list-style-type: none"> • Evaluate the effectiveness of current training in sustaining required personnel operational readiness • Integrate technology with training systems to create higher degree of realism in simulated training exercises • Develop action plans to integrate best practices and technologies to enhance operational readiness of emergency response vehicles, equipment and personnel | |
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