

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

<b>TSC Category</b>	Airport Operations					
<b>TSC</b>	Airport Collaborative Decision Making Model Application					
<b>TSC Description</b>	Utilise the Airport Collaborative Decision Making (A-CDM) model to enhance airport operations and optimise the capacity of runways, terminals, gates and airspace					
<b>TSC Proficiency Description</b>	<b>Level 1</b>	<b>Level 2</b>	<b>Level 3</b>	<b>Level 4</b>	<b>Level 5</b>	<b>Level 6</b>
			<b>ATP-APO-3002-1.1</b>	<b>ATP-APO-4002-1.1</b>	<b>ATP-APO-5002-1.1</b>	<b>ATP-APO-6002-1.1</b>
			Administer implementation plans for Airport Collaborative Decision Making (A-CDM) projects	Enhance efficiencies of airport operations by identifying new opportunities for Airport Collaborative Decision Making (A-CDM) model application	Analyse the impact of Airport Collaborative Decision Making (A-CDM) model on airport operations and implement changes to meet A-CDM requirements	Drive the integration of Airport Collaborative Decision Making (A-CDM) model in airport operations and serve as the thought leader on A-CDM model for the organisation
<b>Knowledge</b>			<ul style="list-style-type: none"> <li>• Concepts of A-CDM model</li> <li>• Service Level Agreements (SLAs) between different stakeholders and/or departments in the aviation industry</li> <li>• Standard Operating Procedures (SOPs) for different airport operations</li> <li>• A-CDM projects progress tracking</li> <li>• Common risks and constraints in A-CDM projects</li> </ul>	<ul style="list-style-type: none"> <li>• Purposes of A-CDM model</li> <li>• Service Level Agreements (SLAs) between different stakeholders and/or departments in the aviation industry</li> <li>• Definitions of terminologies used in A-CDM such as target off block time, target take off time and variable taxi time</li> <li>• Classification and restriction of sensitive airport information</li> <li>• Information flow between airlines, airports, Air Traffic Control (ATC), regulators, ground handling organisations and airport users</li> <li>• Expected performance benchmarks for airport operations</li> <li>• Aircraft turnaround coordination activities</li> </ul>	<ul style="list-style-type: none"> <li>• Principles and theories of A-CDM model</li> <li>• Service Level Agreements (SLAs) between different stakeholders and/or departments in the aviation industry</li> <li>• Information flow between airlines, airports, Air Traffic Control (ATC), regulators, ground handling organisations and airport users</li> <li>• Expected performance benchmarks for airport operations</li> <li>• Concept and usage of Situational Awareness Map (SAM) in the aviation industry</li> <li>• Issues encountered by other airports when implementing and using A-CDM</li> <li>• Contemporary issues in the aviation industry</li> </ul>	<ul style="list-style-type: none"> <li>• Principles and theories of A-CDM model</li> <li>• Policies governing airports, airlines, regulators and ground handling organisations' operations</li> <li>• Information flow between airlines, airports, Air Traffic Control (ATC), regulators, ground handling organisations and airport users</li> <li>• Performance indicators to measure effectiveness of A-CDM projects</li> <li>• Best practices in the implementation of A-CDM projects</li> <li>• Manpower planning and workforce projection</li> <li>• Contemporary issues in the aviation industry</li> <li>• A-CDM 16 milestones and their impact on downstream operations</li> <li>• Local and international guidelines such as</li> </ul>

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				<ul style="list-style-type: none"> <li>Local and international guidelines such as Civil Aviation Authority of Singapore (CAAS) Aeronautical Information Publication (AIP)</li> </ul>	<ul style="list-style-type: none"> <li>Local and international guidelines such as International Civil Aviation Organisation (ICAO) Annex for Facilitation</li> </ul>	<p>International Civil Aviation Organisation (ICAO) Annex for Facilitation</p>
<b>Abilities</b>			<ul style="list-style-type: none"> <li>Identify risks involved in the deployment and execution of A-CDM projects</li> <li>Carry out project implementation plans in line with overall project schedules</li> <li>Retrieve and utilise A-CDM information to make decisions in accordance with established SOPs</li> <li>Check and monitor progress of A-CDM projects against project milestones, deadlines and budgets</li> <li>Provide updates on the status of A-CDM projects to relevant stakeholders and/or departments</li> </ul>	<ul style="list-style-type: none"> <li>Adapt information from A-CDM applications to manage disruptions and unplanned events</li> <li>Collaborate with relevant stakeholders and/or departments to utilise A-CDM applications for cross-departmental projects</li> <li>Determine and communicate the benefits of A-CDM applications on airport operations to different stakeholders and/or departments</li> <li>Assess gaps in airport operations against industry benchmarks</li> <li>Seek new opportunities for A-CDM applications and projects</li> <li>Present key learnings and success factors from past implementation of A-CDM projects</li> </ul>	<ul style="list-style-type: none"> <li>Develop implementation plans and timelines for A-CDM projects</li> <li>Define performance standards for A-CDM projects</li> <li>Oversee A-CDM projects in collaboration with different stakeholders and/or departments</li> <li>Resolve deficiencies in airport operations and systems through A-CDM projects</li> <li>Analyse the impact of A-CDM applications on overall efficiency of airport operations</li> <li>Quantify the impact of airport disruptions and unplanned events</li> <li>Enhance legacy systems to execute A-CDM applications</li> </ul>	<ul style="list-style-type: none"> <li>Establish impact of A-CDM systems on manpower requirements for terminal, airside and ground handling operations</li> <li>Lead implementation of corrective actions for A-CDM systems</li> <li>Measure return-on-investment for A-CDM projects</li> <li>Formulate strategies to enhance the efficiency of A-CDM systems</li> <li>Drive implementation of A-CDM systems for all airport stakeholders</li> </ul>