		Defense Civilian Personnel Advisory Service (DCPAS) "Technical Report for the Life Cycle Logistics (LCL) Tier 2 Technical Competency Model" (August 2019) Appendix A: LCL Tier 2 Technical Competency Model Table 9. LCL Tier 2 Competency Model used in DCAT	
Comp ID	**Competency Title**	**Competency Description**	**Task Statements:**
1	**Product Support Management**	Plan, manage, analyze, resource, implement, and sustain product support across all Integrated Product Support (IPS) elements throughout the system life cycle.	1.A Develop and implement a product support strategy.
			1.B Develop and implement technical and performance aspects for Product Support Arrangements (PSA).
			1.C Translate Warfighter requirements into integrated product support performance outcome metrics.
			1.D Document the product support strategy in the Life Cycle Sustainment Plan (LCSP) and other appropriate acquisition documents.
			1.E Develop and implement Risk, Issues, and Opportunities (RIO) management strategies to mitigate impacts on product support.
			1.F Execute the Life Cycle Sustainment Plan (LCSP), periodically monitoring the effectiveness of the strategy and updating as required.
			1.G Execute established processes for forecasting and optimize cost, schedule, performance, and supportability goals that impact product support.
			1.H Prepare and submit budget requests for product support activities across the system life cycle.
			1.I Ensure the configuration management process established during design and development is maintained throughout the life cycle.
			1.J Advocate for product support in configuration control and risk management boards.
			1.K Conduct Business Case Analyses (BCAs) to identify best value product support arrangements.
			1.L Conduct In-Service Reviews (Post IOC reviews) and Independent Logistics Assessments (ILAs) to assess operational health and product support execution.
			1.M Develop and implement initiatives to manage operating and support costs to influence affordability of the system.
			1.N Communicate product support information to the Program Manager and other key stakeholders for decision-making.
			1.O Assess impact of Engineering Change Proposals (ECPs), modifications, modernization, and/or service life-extensions across the Integrated Product Support (IPS) elements.
			1.P Plan and execute Logistics Test & Evaluation, including supportability testing, Maintainability Demonstrations (M-Demo), Logistics Demonstrations (LOG-Demo), and related verification, validation and testing of the product support package.
			1.Q Plan and execute system fielding, site activation, and beddown of operationally effective and suitable systems.
2	**Maintenance Planning and Management**	Plan, manage, analyze, implement, and sustain maintenance concepts, operations, and activities to deliver maintenance capabilities that support the Warfighter throughout the system life cycle.	2.A Develop Product Support Arrangements (PSA) that specify products and services to implement the maintenance plan.
			2.B Conduct or update repair analyses (e.g., Depot Source of Repair (DSoR), Level of Repair Analysis (LoRA)).
			2.C Develop, plan, execute, and update maintenance concepts to support Key Performance Parameters (KPPs) and Key System Attributes (KSAs), optimizing performance and life cycle cost.
			2.D Apply prognostics, diagnostics, Reliability Centered Maintenance (RCM), and other Condition Based Maintenance (CBM+) process to minimize system maintenance requirements and associated costs for preventative and corrective maintenance.
			2.E Plan and coordinate implementation of Engineering Change Proposals (ECPs), modifications, modernization, and/or service life-extensions with all stakeholders.
			2.F Develop, plan, and establish repair capabilities for all levels of maintenance.
			2.G Develop and implement de-militarization and disposition procedures for weapons system, associated equipment, and technical and product data.
			2.H Perform, validate, and verify supportability analysis (e.g. Maintenance Task Analysis, Fault Tree Analysis, Reliability Centered Maintenance (RCM) analysis, Availability Modeling and Simulation (M&S), Failure Modes Effects and Criticality Analysis (FMECA), Reliability analysis, Level of Repair Analysis (LoRA)) throughout the life cycle.
			2.I Make depot level maintenance workload allocation decisions (e.g., Core Logistics Analysis).
			2.J Analyze and apply Logistics Product Data (LPD) to the maintenance planning process.

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3	Supply Support	Plan, manage, analyze, source, and implement supply chain management necessary to acquire, store, issue, and dispose of all required supplies, spares, and repair parts to support the warfighter throughout.	3.A Manage inventory using automated tools and best practices, to include demand forecasting, resource estimates, asset visibility (e.g., Automated Information Technology (AIT)), accountability, and control processes in order to optimize system availability.
			3.B Analyze, plan, and implement replenishment and buffer stock management for all material using Readiness-Based Sparing and/or other best practices.
			3.C Identify opportunities for strategic, competitive, and alternative sourcing to address commonality, standardization, Diminishing Manufacturing Sources and Material Shortages (DMSMS), obsolescence, and life cycle cost.
			3.D Establish, monitor, and evaluate metrics to improve supply chain performance.
			3.E Conduct analyses to determine effective supply support strategies throughout the life cycle.
			3.F Conduct Supply Chain Risk Management (SCRM) throughout the life cycle.
			3.G Develop, plan, and implement provisioning and cataloging activities to include initial lay-in of spares and prepositioning sites.
			3.H Evaluate DoD and industry additive manufacturing capabilities, solutions, and processes to resolve supply chain management (SCM), Diminishing Manufacturing Sources and Material Shortages (DMSMS), and obsolescence issues.
4	Design Interface	Analyze and influence the systems engineering process and system design throughout the life cycle for reliability, maintainability, supportability, suitability, inherent availability, transportability, and life cycle	4.A Partner with systems engineering to influence product support package development.
			4.B Use supportability analysis to develop the product support strategy and Product Support Arrangements (PSA).
			4.C Influence system design to enable achievement of the Sustainment Key Performance Parameter (KPP) and Key System Attributes (KSA).
			4.D Evaluate results of Environmental, Safety, and Occupational Health (ESOH) analyses to influence product support package development.
			4.E Evaluate results of Human Systems Integration (HSI) analyses to influence product support package development.
			4.F Update supportability analysis using output from Failure Reporting and Corrective Action System (FRACAS) and Failure Modes Effects and Criticality Analysis (FMECA).
			4.G Implement the Product Support Analysis process.
			4.H Facilitate reliability growth through a robust developmental testing process.
			4.I Conduct Level of Repair Analysis (LORA) to align the system design and the product support package with the maintenance concept.
			4.J Conduct functional analysis and evaluate technological opportunities to influence development of the product support package
5	Sustaining Engineering	Analyze and influence the systems engineering process and system design throughout the life cycle for reliability, maintainability, supportability, suitability, inherent availability, transportability, and life cycle	5.A Conduct In-Service Reviews (i.e., Post IOC reviews) to validate sustainment strategies and identify opportunities to improve performance or reduce operating and support costs.
			5.B Conduct root cause analysis for identified sustainment issues and develop and implement corrective actions.
			5.C Monitor and evaluate sustainment metrics to update the product support package and Product Support Arrangements (PSA).
			5.D Create a feedback loop utilizing Failure Reporting and Corrective Action System (FRACAS) to ensure performance data demonstrated during sustainment is available during the design of future systems.
			5.E Implement proactive Diminishing Manufacturing Sources and Material Shortages (DMSMS) and obsolescence management planning.
			5.F Record system failures in the Failure Reporting and Corrective Action System (FRACAS) throughout the system life cycle.
			5.G Update the supportability analyses to evaluate and incorporate system design changes.
			5.H Perform data analytics to support the sustainment of operational systems.
			5.I Analyze and assess effects of cybersecurity, program protection planning, and anti-tamper on the product support strategy and product support package.
			5.J Assess the impact of capability enhancement, technology insertion, modifications, modernization, configuration changes, and system upgrades on the product support package and Product Support Arrangements (PSA).
			5.K Identify, review, assess, and resolve product support and quality deficiencies throughout the system life cycle.

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6	**Technical and Product Data**	Identify, analyze, plan, source, and implement activities to develop, acquire, validate, manage, and publish technical and product data to account for, produce, install, test, operate, train on, and sustain the system through the life cycle.	6.A Develop a data management strategy, to include assessment of product data needs, metrics, and rights in an Integrated Product Data Environment across the system life cycle.
			6.B Identify, develop, and accept delivery of product support related Contract Data Requirements List (CDRL) items.
			6.C Support the identification of product data needed for operations and sustainment.
			6.D Document and maintain the configuration documentation.
			6.E Develop and maintain Logistics Product Data (LPD).
7	**Packaging, Handling, Storage, and Transportation (PHS&T)**	Identify, analyze, plan, source, acquire, and sustain PHS&T to maximize availability and usability of material and equipment for systems and associated components.	7.A Determine and document transportation requirements, plans, support infrastructure, and special handling considerations to safely transport items.
			7.B Identify and plan Packaging, Handling, Storage, and Transportation (PHS&T) characteristics to optimize Shelf-Life.
			7.C Develop, implement, and monitor container reutilization processes.
			7.D Design, develop, document, test, and sustain special purpose containers and packaging.
			7.E Manage maintenance of items in long-term storage.
			7.F Analyze and manage Packaging, Handling, Storage, and Transportation (PHS&T) needs associated with Hazardous Materials (HAZMAT).
8	**Manpower and Personnel**	Identify, analyze, and plan for personnel (i.e., civilian, military, and contractors) with the knowledge, skills, and abilities required to manage, operate, maintain, and support the system.	8.A Define the skillsets and qualifications required to operate, maintain, and support the system.
			8.B Conduct manpower analysis to determine quantity and workforce mix of civilian, military, and contractor personnel.
			8.C Develop, assess, and implement product support strategies and Product Support Arrangements (PSA) to minimize manpower requirements.
9	**Training and Training Support**	Identify, analyze, plan, manage, develop, source, implement, and sustain training and training support for personnel that manage, operate, maintain, and support the system.	9.A Conduct analysis to determine training needs.
			9.B Develop a training plan.
			9.C Develop, implement, and sustain a training program (e.g., curriculum, training devices, simulators) for personnel who operate, maintain, and support the system.
			9.D Define, implement, and monitor training metrics to evaluate training system effectiveness, cost, and overall impact.
			9.E Pursue innovative learning techniques and technologies to improve training effectiveness and affordability.
			9.F Plan, develop, and manage life cycle support for training devices and simulators.

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10	Support Equipment	Identify, analyze, plan, source, implement, and sustain activities needed to test, operate, maintain, and support the system.	10.A Develop, acquire, and sustain support equipment integrated into the product support strategy and product support package.
			10.B Develop support equipment plans that optimize the mix of common and peculiar support equipment.
			10.C Assess latest technologies for use in test, calibration, metrology, and repair equipment.
			10.D Evaluate support and test equipment proposals for reliability, maintainability, supportability, suitability, inherent availability, and interoperability.
			10.E Minimize introduction of unique types of Automatic Test Systems (ATS) and Automatic Test Equipment (ATE) into the DoD inventory.
11	Facilities and Infrastructure	Identify, analyze, plan, acquire, and sustain permanent and semi-permanent real property assets to operate, maintain and support the system.	11.A Identify needs and develop plans for the acquisition and sustainment of both operations and support facilities.
			11.B Develop and implement support agreements to integrate new facilities/infrastructure with host installation services.
			11.C Determine suitability of Heating, ventilation, and air conditioning (HVAC) and utilities, and integrate the system with existing and planned facilities and infrastructure.
12	Information Technology Support Life Cycle Management	Pending	Pending
			Pending
			Pending