COURSE SYLLABUS

SL 5K

USAREUR-AF

COURSE SYLLABUS — SL 5K: ADVANCED KNOWLEDGE MANAGEMENT

Maven Smart System (MSS) — USAREUR-AF

HEADQUARTERS
UNITED STATES ARMY EUROPE AND AFRICA
(USAREUR-AF)
Wiesbaden, Germany

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COURSE SYLLABUS — SL 5K: ADVANCED KNOWLEDGE MANAGEMENT

MAVEN SMART SYSTEM (MSS) — USAREUR-AF

Field	Detail
Level	SL 5K — Advanced Knowledge Manager Specialist Track
Duration	3 days (24 hours)
Prerequisites	SL 4K complete (Go evaluation on file); 12+ months active KM practice in a military or large organizational context; demonstrated experience designing knowledge systems, not just operating them
Audience	Senior KMOs, organizational knowledge architects, KM leads managing enterprise-level institutional knowledge systems on MSS
Format	Seminar + architecture workshop + evaluated knowledge system design
Location	MSS Training Environment (Workshop, AIP Logic, Pipeline Builder access required)

PREREQUISITE WARNING: SL 5K is not required for most KM billets. It is intended for KMOs designing enterprise knowledge architectures, integrating AI augmentation into institutional memory systems, or leading cross-organizational KM initiatives.

BLUF: SL 5K moves beyond individual lessons-learned systems (SL 4K) to the design and governance of enterprise knowledge architectures — multi-domain taxonomies, AI-augmented synthesis and retrieval, knowledge system interoperability, and the organizational discipline required to prevent institutional memory from degrading over time. SL 5K practitioners design systems that outlast individual personnel.

LEARNING OBJECTIVES

#	Objective
1	Design a multi-domain knowledge architecture for a theater formation: taxonomy design, cross-functional ontology linkage, governance roles and responsibilities
2	Build AI-augmented knowledge synthesis pipelines: automated tagging, theme extraction, summary generation using AIP Logic, with human review gates at appropriate points
3	Design knowledge retrieval systems for scale: semantic search architecture, query expansion, relevance feedback, zero-recall failure handling
4	Implement a knowledge quality governance framework: accuracy auditing, freshness policy, contradiction management, authoritative source designation
5	Design knowledge transfer and unit continuity systems that survive personnel turnover: handoff protocols, knowledge decay monitoring, reactivation procedures
6	Evaluate the health of an existing knowledge system: identify staleness, coverage gaps, usage analytics, and recommend a remediation plan

PRE-COURSE CHECKLIST

Complete **5+ duty days before Day 1:**

- ☐ Read TM-50K, Chapter 1 (Introduction and Scope) before Day 1
- ☐ Prepare a 1-page description of the knowledge system your unit currently operates (or the most significant one you've managed) — gaps, strengths, and your top two challenges
- ☐ Identify one personnel turnover event from your unit where institutional knowledge was clearly lost — you will use this as a case study on Day 2

DAILY SCHEDULE

Day 1 — Enterprise Knowledge Architecture

Time	Block	Method	Content
0800–0900	1	Seminar	Enterprise KM architecture principles: single-domain vs. multi-domain, federated vs. centralized, governance structures
0900–1100	2	Workshop	Taxonomy design: multi-domain controlled vocabulary; cross-functional linkage (e.g., SIGACT events linked to lessons learned linked to doctrine); participant architecture exercises
1100–1115	—	Break	
1115–1200	3	Seminar	Knowledge quality governance: accuracy auditing cadence, freshness policies, contradiction management protocols, authoritative source designation
1200–1300	—	Lunch	
1300–1500	4	Lab	Semantic search architecture: embedding-based retrieval for knowledge repositories; query expansion patterns; zero-recall failure detection
1500–1515	—	Break	
1515–1700	5	Lab	Knowledge system health metrics: usage analytics, query-with-no-results rate, content age distribution, coverage gap identification

Evening reading: TM-50K, Chapter 4 (AI-Assisted Doctrine and Lessons Learned at Scale) — human review gate placement section.

Day 2 — AI-Augmented KM and Continuity Systems

Time	Block	Method	Content
0800–0830	—	Review	Architecture design review
0830–1030	6	Lab	AI-augmented tagging pipeline: AIP Logic workflow that auto-tags ingested documents using controlled vocabulary; human review gate design

Time	Block	Method	Content
1030–1045	—	Break	
1045–1200	7	Lab	Theme extraction and synthesis: using LLMs to generate summaries and identify contradictions across a document corpus; accuracy evaluation
1200–1300	—	Lunch	
1300–1500	8	Workshop	Unit continuity system design: handoff protocol structure, knowledge decay monitoring, reactivation procedures — using the participant's case study from pre-course prep
1500–1515	—	Break	
1515–1700	9	Seminar	Cross-organizational KM interoperability: sharing knowledge between formations without duplicating governance complexity; federation patterns

Evening reading: Prepare Day 3 knowledge system evaluation (bring health metrics from a real or notional system).

Day 3 — Knowledge System Evaluation and Practical Exercise

Time	Block	Method	Content
0800–0900	10	Workshop	Knowledge system health audit methodology: structured evaluation against SL 5K health checklist
0900–1030	11	Workshop	Participant system audit: evaluate your pre-prepared knowledge system against the checklist; identify top 3 remediation priorities
1030–1045	—	Break	
1045–1100	12	Brief	Practical evaluation scenario brief
1100–1200	—	Prep	Scenario planning
1200–1300	—	Lunch	
1300–1700	13	**Eval**	**Evaluated exercise:** Design an enterprise knowledge architecture for a notional theater G7 section; produce a taxonomy, governance plan, and AI-

Time	Block	Method	Content
			augmented synthesis pipeline design; brief to evaluator

Go standard: Architecture covers all required domains; AI pipeline includes human review gate; governance plan addresses freshness and contradiction management; continuity section present.

PEER ADVANCED TRACKS

Track	Relevance to SL 5K
SL 5H (Advanced AI Eng)	AI-augmented knowledge synthesis; enterprise RAG architecture for organizational knowledge retrieval
SL 5J (Advanced PM)	Portfolio-level institutional memory; KM systems supporting multi-program delivery governance
SL 5G (Advanced ORSA)	ORSA products as knowledge artifacts; versioning and retention requirements for analytical products and assumption registers

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