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ATIS COURSE REGISTRATION PACKET

ATIS-MSS

USAREUR-AF

ATIS COURSE REGISTRATION PACKET

Maven Smart System (MSS) Training Program

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

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26 MARCH 2026

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ATIS COURSE REGISTRATION PACKET

MAVEN SMART SYSTEM (MSS) TRAINING PROGRAM

USAREUR-AF Operational Data Team — C2DAO

Program Designation	MSS-POI-001
Proponent	USAREUR-AF C2DAO
Proponent Organization	USAREUR-AF C2DAO Training Branch
Proponent DSN	[To be assigned]
Proponent Email	usarmy.wiesbaden.usareur-af.list.c2dao-training@army.mil
Effective Date	March 2026
Classification	
Review Cycle	Annual or upon major platform update
Total Courses	21
Total Program Hours	664
Format	TR 350-70 compliant; structured for ATIS registration
Phase 1	USAREUR-AF G3/7 command training registration
Phase 2	T2COM institutional registration (future)

REGISTRATION STATUS

ATIS Course Numbers: To be assigned upon registration. Internal designators (SL 1 through SL 5L) are used throughout this packet. Upon ATIS registration, each course will receive a formal ATIS course number which will be annotated in the ATIS Number field of each course record.

T2COM Note: This packet is structured to TR 350-70 specification. When transitioning to T2COM institutional registration, the following additional elements will be required: - Formal TRADOC school partnership (proponent alignment) - ASI/SQI/Skill Identifier request (DA-level action via DAPE-MPE) if applicable - ATRRS registration for Army-wide course catalog visibility - Ammunition and training aid requirements (N/A for this program but fields required)

AUTHORITATIVE REFERENCES

Publication	Title	Relevance
AR 350-1	Army Training and Leader Development	Master regulation for Army training policy
AR 350-10	Management of Army Individual Training Requirements and Resources	Governs individual training seat management and enrollment
TR 350-70	Army Learning Policy and Systems	TRADOC master regulation governing POI standards and course administration
TP 350-70-14	Training Development in Institutional Domain	TRADOC pamphlet governing POI construction and instructional system development
TP 350-70-7	Army Educational Processes	Curriculum development, assessment design, and evaluation methodology
ADP 7-0	Training	Army training doctrine; principles for training management
FM 7-0	Training	Unit training management procedures; GO/NO-GO evaluation guidance

PREREQUISITE CHAIN

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SL 1 (all personnel)
  +-- SL 2 (builders)
        +-- SL 3 (advanced builders / data-adjacent / WFF functional staff)
              |-- SL 4A (Intelligence WFF)
              |-- SL 4B (Fires WFF)
              |-- SL 4C (Movement & Maneuver WFF)
              |-- SL 4D (Sustainment WFF)
              |-- SL 4E (Protection WFF)
              |-- SL 4F (Mission Command WFF)
              |-- SL 4G (ORSA) ----------> SL 5G (Advanced ORSA)
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                |-- SL 4H (AI Engineer) ---> SL 5H (Advanced AI Engineer)
                |-- SL 4M (ML Engineer) ---> SL 5M (Advanced ML Engineer)
                |-- SL 4J (Program Mgr) ---> SL 5J (Advanced PM)
                |-- SL 4K (Knowledge Mgr) -> SL 5K (Advanced KM)
                +-- SL 4L (Software Eng) --> SL 5L (Advanced SWE)
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NOTE

SL 3 is a HARD prerequisite for ALL SL 4 tracks (WFF A-F and specialist G-M). There are NO SL 5A-F tracks.

PROGRAM HOURS SUMMARY

Course	Title	Tier	Days	Hours	Prereq	ATIS #
SL 1	Maven User	Foundation	1	8	None	[TBD — assigned by ATIS upon registration]
SL 2	Builder	Builder	5	40	SL 1	[TBD — assigned by ATIS upon registration]
SL 3	Advanced Builder	Advanced	5	40	SL 1, SL 2	[TBD — assigned by ATIS upon registration]
SL 4A	Intelligence Warfighting Function	WFF Functional	3	24	SL 1, SL 2, SL 3	[TBD — assigned by ATIS upon registration]
SL 4B	Fires Warfighting Function	WFF Functional	3	24	SL 1, SL 2, SL 3	[TBD — assigned by ATIS upon registration]
SL 4C	Movement and Maneuver Warfighting Function	WFF Functional	3	24	SL 1, SL 2, SL 3	[TBD — assigned by ATIS upon registration]
SL 4D	Sustainment Warfighting Function	WFF Functional	3	24	SL 1, SL 2, SL 3	[TBD — assigned by ATIS upon registration]
SL 4E	Protection Warfighting Function	WFF Functional	3	24	SL 1, SL 2, SL 3	[TBD — assigned by ATIS upon

Course	Title	Tier	Days	Hours	Prereq	ATIS #
						registration]
SL 4F	Mission Command Warfighting Function	WFF Functional	3	24	SL 1, SL 2, SL 3	[TBD — assigned by ATIS upon registration]
SL 4G	ORSA Specialist	Specialist	5	40	SL 1, SL 2, SL 3	[TBD — assigned by ATIS upon registration]
SL 4H	AI Engineer	Specialist	5	40	SL 1, SL 2, SL 3	[TBD — assigned by ATIS upon registration]
SL 4M	ML Engineer	Specialist	5	40	SL 1, SL 2, SL 3	[TBD — assigned by ATIS upon registration]
SL 4J	Program Manager	Specialist	4	32	SL 1, SL 2, SL 3	[TBD — assigned by ATIS upon registration]
SL 4K	Knowledge Manager	Specialist	4	32	SL 1, SL 2, SL 3	[TBD — assigned by ATIS upon registration]
SL 4L	Software Engineer	Specialist	5	40	SL 1, SL 2, SL 3	[TBD — assigned by ATIS upon registration]
SL 5G	Advanced ORSA	Advanced Specialist	5	40	SL 1, SL 2, SL 3, SL 4G	[TBD — assigned by ATIS upon registration]
SL 5H	Advanced AI Engineer	Advanced Specialist	5	40	SL 1, SL 2, SL 3, SL 4H	[TBD — assigned by ATIS upon registration]
SL 5M	Advanced ML Engineer	Advanced Specialist	5	40	SL 1, SL 2, SL 3, SL 4M	[TBD — assigned by ATIS upon registration]
SL 5J	Advanced Program Manager	Advanced Specialist	3	24	SL 1, SL 2, SL 3, SL 4J	[TBD — assigned by ATIS upon registration]
SL 5K	Advanced Knowledge Manager	Advanced Specialist	3	24	SL 1, SL 2, SL 3, SL 4K	[TBD — assigned by ATIS upon

Course	Title	Tier	Days	Hours	Prereq	ATIS #
						registration]
SL 5L	Advanced Software Engineer	Advanced Specialist	5	40	SL 1, SL 2, SL 3, SL 4L	[TBD — assigned by ATIS upon registration]

COURSE RECORDS

Each course record below contains all TR 350-70 required data elements for ATIS registration.

SL 1: Maven User

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 1
Course Title	Maven User
Tier	Foundation (Tier 1)
Duration	1 days (8 hours)
Prerequisites	None. All USAREUR-AF personnel eligible.
Prerequisite Codes	None
Audience	All USAREUR-AF personnel
Target MOS/Branch	All MOS
Max Class Size	20
Min Class Size	4
Scheduling Cadence	Monthly or as-needed
Instructor Ratio	10:1
Instructor Qualification	SL 2 certified; 90 days active MSS use
Access Level Required	Viewer (standard)
Provisioning Lead Time	5 duty days

Field	Value
Evaluation	Practical exercise (6 tasks, GO/NO-GO)
Hard NO-GO	Incorrect classification marking or export procedure
Remediation Hours	2 hours
Remediation Method	Self-study with TM + supervised lab with instructor
Security Clearance	None required

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS production environment
Facilities	Classroom, projector
Special Equipment	None

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	1.5
Laboratory (hands-on)	5.5
Discussion / Review	0.0
Workshop / Seminar	0.0
Evaluation	1.0
Total	**8.0**

Blocks of Instruction

Block	Title	Hours	Method	Reference
1	MSS Overview and Data Literacy Fundamentals	1	LEC	TM-10 Ch 1; Data Literacy Technical Reference Ch 1
2	Login and Navigation: CAC Authentication, Project Access	1	LAB	TM-10 Ch 2
3	Workshop Applications: Tables, Filters, Dashboards	1	LAB	TM-10 Ch 3

Block	Title	Hours	Method	Reference
4	Actions: Executing Status Updates and Form Submissions	1	LAB	TM-10 Ch 4
5	Contour: Building a Basic Chart and Applying a Filter	1	LAB	TM-10 Ch 5
6	Quiver: Exploring Object Types, Filters, and Exporting Views	1	LAB	TM-10 Ch 6
7	AIP Interface: Submitting a Query; Understanding AI Output Limitations	0.5	LAB	TM-10 Ch 7
8	Classification Markings and Authorized Export Procedures	0.5	LEC	TM-10 Ch 8
9	Practical Exercise (Evaluated)	1	EVAL	TM-10 Practical Exercise Guide

T&EO Task Crosswalk

- SL1-01: Log In and Navigate to Designated Application
- SL1-02: Filter Table to Identify Missing Submissions
- SL1-03: Execute an Authorized Action
- SL1-04: Export Filtered Table to CSV
- SL1-05: Build a Basic Contour Chart
- SL1-06: Explore Object Types in Quiver

SL 2: Builder

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 2
Course Title	Builder
Tier	Builder (Tier 2)
Duration	5 days (40 hours)
Prerequisites	SL 1 Go on file
Prerequisite Codes	SL 1
Audience	All staff assigned to build or maintain MSS data products

Field	Value
Target MOS/Branch	All MOS with data product responsibilities
Max Class Size	12
Min Class Size	4
Scheduling Cadence	Quarterly
Instructor Ratio	8:1
Instructor Qualification	SL 3 certified; 6+ months Foundry build experience; able to troubleshoot all SL 2 labs
Access Level Required	Builder
Provisioning Lead Time	5 duty days
Evaluation	Practical exercise (11 tasks, GO/NO-GO)
Hard NO-GO	Viewer-role test account can trigger Action or modify data
Remediation Hours	4 hours
Remediation Method	Supervised lab on failed tasks; build from scratch on a different dataset
Security Clearance	None required

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS production + training sandbox
Facilities	Classroom, projector
Special Equipment	None

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	0.0
Laboratory (hands-on)	31.2
Discussion / Review	2.8
Workshop / Seminar	0.0

Method	Hours
Evaluation	4.0
Review / Scenario Brief (unattributed)	2.0
Total	**40.0**

Blocks of Instruction

Block	Title	Hours	Method	Reference
1	Project Creation: Naming Conventions, Markings, Folder Structure	1.5	LAB	TM-20 Ch 2
2	File Ingestion: Upload CSV, Inspect Schema, Types, Row Count	0.75	LAB	TM-20 Ch 3 Sec 3-1
3	Dataset Explorer: Column Profiling, Null Detection, Type Mismatches	1	LAB	TM-20 Ch 3 Sec 3-2
4	Pipeline Builder Orientation: Canvas, Step Library, I/O Config	2	LAB	TM-20 Ch 3 Sec 3-3
5	C2DAO Naming Conventions: Datasets, Pipelines, Object Types	0.5	DIS	Standards Ch 1-2
6	Individual Practice: Second Project, Ingest Provided Dataset	1.5	LAB	TM-20 Ch 2-3
7	Pipeline: Filter Step, Rename Step, CAST for Type Correction	2	LAB	TM-20 Ch 3 Sec 3-4
8	Pipeline: Calculated Columns — String Functions, Conditional Logic, COALESCE	1.2	LAB	TM-20 Ch 3 Sec 3-5
9	Pipeline: Date and Time Functions — DATEDIFF, DATE_TRUNC, CURRENT_DATE	2	LAB	TM-20 Ch 3 Sec 3-6
10	End-to-End Pipeline Practice: Raw Input to Typed Filtered Output	1.8	LAB	TM-20 Ch 3
11	Pipeline: Join Step — Inner/Left Join, Key Selection, Deduplication	2	LAB	TM-20 Ch 3 Sec 3-7
12	Pipeline: Group-By Aggregation, Union Step, Output Mode Configuration	1.2	LAB	TM-20 Ch 3 Sec 3-8
13	Ontology Manager: Create Object Type — Properties, PK, Display Name	2	LAB	TM-20 Ch 4 Sec 4-1

Block	Title	Hours	Method	Reference
14	Ontology Manager: Create Link Type — Cardinality, Directionality	0.75	LAB	TM-20 Ch 4 Sec 4-2
15	Pipeline: Ontology Write Step — Property Mapping, Run and Verify	1	LAB	TM-20 Ch 4 Sec 4-3
16	Actions: Create Basic Action — Parameter, Write Rule, Access Restriction	1.5	LAB	TM-20 Ch 4 Sec 4-4
17	Workshop Orientation: Canvas, Widget Library, Object Type Binding, Table Widget	1.8	LAB	TM-20 Ch 5 Sec 5-1
18	Workshop: Filter Widget, Metric Widget, Bar Chart Widget	2	LAB	TM-20 Ch 5 Sec 5-2
19	Workshop: Connecting Action Button — Trigger, Confirmation, Post-Action Refresh	1.2	LAB	TM-20 Ch 5 Sec 5-3
20	Access Control Model: Viewer vs. Editor Roles	0.5	DIS	TM-20 Ch 6 Sec 6-1
21	Workshop Publishing: Visibility, Viewer Access, Confirm Viewer Cannot Edit	1	LAB	TM-20 Ch 6 Sec 6-2
22	Branching: Create Branch, Make Change on Branch, Verify Branch-Only	1	LAB	TM-20 Ch 7 Sec 7-1
23	Promotion Workflow: Write Description, Submit to Steward, Respond to Rejection	0.75	LAB	TM-20 Ch 7 Sec 7-2
24	Full-Stack Review: Trace Product from Raw File to Access Control	1	REV	TM-20 All Chapters
25	Practical Exercise (Evaluated)	4	EVAL	TM-20 Practical Exercise Guide

T&EO Task Crosswalk

- SL2-01: Create a Foundry Project with Correct Naming and Structure
- SL2-02: Ingest a File and Verify Data Quality
- SL2-03: Build a Clean/Transform Pipeline
- SL2-04: Build a Join Pipeline with Derived Columns
- SL2-05: Create an Object Type with Properties and PK
- SL2-06: Create a Link Type Between Object Types
- SL2-07: Configure a Pipeline Ontology Write Step
- SL2-08: Configure an Action with Parameter and Access Control

- SL2-09: Build a Workshop Application with Table, Filter, Metric, Chart
- SL2-10: Connect an Action Button to a Workshop Widget
- SL2-11: Manage Access Control (Viewer/Editor) and Verify Role Behavior

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SL 3: Advanced Builder

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 3
Course Title	Advanced Builder
Tier	Advanced (Tier 3)
Duration	5 days (40 hours)
Prerequisites	SL 1 and SL 2 Go on file
Prerequisite Codes	SL 1, SL 2
Audience	Data-adjacent specialists, unit data leads
Target MOS/Branch	17-series, 25-series, S6/G6, G2, unit data leads
Max Class Size	8
Min Class Size	3
Scheduling Cadence	Quarterly
Instructor Ratio	6:1
Instructor Qualification	SL 4 (any track) or C2DAO SME designation; able to conduct design critiques
Access Level Required	Editor + AIP Logic configuration
Provisioning Lead Time	7 duty days
Evaluation	Practical exercise (6 tasks, including reviewed design document; GO/NO-GO)
Hard NO-GO	Fatally-flawed Ontology design not corrected before build; promotion submitted without description
Remediation Hours	8 hours
Remediation Method	Full-day supervised lab; rebuilding failed components

Field	Value
Security Clearance	None required

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS production + training sandbox
Facilities	Classroom, projector, whiteboard
Special Equipment	None

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	1.0
Laboratory (hands-on)	26.0
Discussion / Review	1.0
Workshop / Seminar	4.8
Evaluation	4.0
Review / Scenario Brief (unattributed)	3.2
Total	**40.0**

Blocks of Instruction

Block	Title	Hours	Method	Reference
1	Multi-Page Workshop: Navigation, Page Parameters, URL Deep Links	2	LAB	TM-30 Ch 2 Sec 2-1
2	Conditional Logic: Show/Hide Panels, Conditional Formatting, Dynamic Visibility	1.2	LAB	TM-30 Ch 2 Sec 2-2
3	Variable Passing: Object Selections Between Pages, Filtered Detail Views	2	LAB	TM-30 Ch 2 Sec 2-3
4	Design Exercise: 3-Page Operations Dashboard; Instructor Critique	1.8	WKS	TM-30 Ch 2

Block	Title	Hours	Method	Reference
5	Multi-Source Joins: Inner/Left/Outer, Fan-Out Handling, Post-Join Deduplication	2	LAB	TM-30 Ch 3 Sec 3-1
6	Union Transforms: Compatible Schemas, Handling Mismatches	1.2	LAB	TM-30 Ch 3 Sec 3-2
7	Group-By Aggregations: Count/Sum/Min/Max, Aggregate-Then-Join Patterns	2	LAB	TM-30 Ch 3 Sec 3-3
8	Output Mode: Overwrite vs. Append; Append for Snapshot Pipelines	1.2	LAB	TM-30 Ch 3 Sec 3-4
9	Scheduled Pipeline: Schedule Expression, Build Failure Email Alert	0.5	LAB	TM-30 Ch 3 Sec 3-5
10	Ontology Design Methodology: Domain Analysis, Entity ID, Relationship Mapping, Action Design	1	LEC	TM-30 Ch 4 Sec 4-1
11	Individual Design Exercise: Mission Requirement to Documented Ontology Schema	1.8	LAB	TM-30 Ch 4 Sec 4-2
12	Design Critique: Peer Presentations, Class Review Against 6-Item Rubric	2	WKS	TM-30 Design Rubric
13	Build the Approved Design: Create Ontology, Connect Pipeline via Write Step	2.2	LAB	TM-30 Ch 4 Sec 4-3
14	Contour: Pivot Tables, Calculated Columns, Parameter Controls, Saved Views	2	LAB	TM-30 Ch 5
15	Quiver: Multi-Object Analysis, Linked Views, Cross-Filter Propagation, Drilling	1.2	LAB	TM-30 Ch 6
16	AIP Logic Configuration: Triggers, Inputs, Outputs; Human Review Queue Design	1.5	LAB	TM-30 Ch 7 Sec 7-1
17	Data Lineage: Reading Lineage Graphs, Identifying Sources and Consumers	1.2	LAB	TM-30 Ch 8
18	C2DAO Production Standards: Quality Gates for Production-Ready Data Products	1	DIS	Standards Ch 3
19	Full C2DAO Promotion Workflow: Branch, Change, Submit, Respond, Approval	1	LAB	TM-30 Ch 9
20	Full-Stack Review: Raw Source to Pipeline to Ontology to Workshop to Governance	1	REV	TM-30 All Chapters
21	Practical Exercise Scenario Brief and Design Planning Time	1.2	BRF	—

Block	Title	Hours	Method	Reference
22	Practical Exercise (Evaluated)	4	EVAL	TM-30 Practical Exercise Guide

T&EO Task Crosswalk

- SL3-01: Build a Multi-Page Workshop with Variable Passing
- SL3-02: Build an Advanced Pipeline (Multi-Source Join, Aggregation)
- SL3-03: Design and Document an Ontology Schema
- SL3-04: Build an Ontology from Approved Design
- SL3-05: Configure AIP Logic with Human Review Queue
- SL3-06: Execute Full Promotion Workflow

SL 4A: Intelligence Warfighting Function

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 4A
Course Title	Intelligence Warfighting Function
Tier	WFF Functional (Tier 4)
Duration	3 days (24 hours)
Prerequisites	SL 1, SL 2, and SL 3 Go on file (all required)
Prerequisite Codes	SL 1, SL 2, SL 3
Audience	G2/S2 staff, targeting officers, all-source analysts
Target MOS/Branch	35-series, FA30
Max Class Size	12
Min Class Size	4
Scheduling Cadence	Quarterly or as-needed (high demand)
Instructor Ratio	8:1
Instructor Qualification	SL 4A certified; G2/S2 Intel functional background; SL 3 proficiency
Access Level Required	Builder
Provisioning Lead Time	5 duty days

Field	Value
Evaluation	Practical exercise (GO/NO-GO)
Hard NO-GO	Intelligence product without data-as-of timestamp or source attribution
Remediation Hours	4 hours
Remediation Method	Supervised lab on failed tasks; build from scratch on a different dataset
Security Clearance	None required
Doctrinal References	FM 2-0, ATP 2-01, FM 3-60

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS production + WFF-specific datasets
Facilities	Classroom, projector
Special Equipment	None

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	1.0
Laboratory (hands-on)	15.0
Discussion / Review	1.0
Workshop / Seminar	0.0
Evaluation	3.0
Review / Scenario Brief (unattributed)	4.0
Total	**24.0**

Blocks of Instruction

Block	Title	Hours	Method	Reference
1	Doctrinal Context: MSS in Intelligence Operations	1	BRF	TM-40A Ch 1; FM 2-0
2	Intelligence COP Configuration: Threat, NAI/TAI, IPB Products	2	LAB	TM-40A Ch 2

Block	Title	Hours	Method	Reference
3	Data Currency Verification: Timestamps, Source Tracing, Stale Feed Escalation	0.75	LAB	TM-40A Ch 2
4	PIR Alert Configuration: Triggers, Geographic/Threshold Conditions, Routing	2	LAB	TM-40A Ch 3
5	PIR Scenario Exercise (Day 1)	1.8	LAB	TM-40A Ch 3
6	Collection Status Dashboard: NAI/TAI Coverage, Asset Task Status, Gap Analysis	2	LAB	TM-40A Ch 4
7	All-Source Intelligence Summary Product with Sourcing and Currency Caveats	2	LAB	TM-40A Ch 5
8	Targeting Support: Confirmed vs Unconfirmed Targets, BDA Status, TWG Product	2	LAB	TM-40A Ch 6
9	OPSEC for Intelligence Products: Marking, Distribution, Export, Need-to-Know	1	DIS	TM-40A Ch 7
10	Tabletop: Intelligence Data Failure Scenario and Response	1.5	SEM	TM-40A Ch 7
11	Practical Exercise (Evaluated)	3	EVAL	TM-40A Practical Exercise Guide

T&EO Task Crosswalk

- SL4A-01: Configure Intelligence COP with Source Attribution
- SL4A-02: Configure PIR Alerts with Correct Triggers
- SL4A-03: Build Collection Status Dashboard
- SL4A-04: Produce All-Source Intelligence Summary
- SL4A-05: Build Targeting Support Product for TWG
- SL4A-06: Apply OPSEC Procedures to Intelligence Products

SL 4B: Fires Warfighting Function

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 4B
Course Title	Fires Warfighting Function

Field	Value
Tier	WFF Functional (Tier 4)
Duration	3 days (24 hours)
Prerequisites	SL 1, SL 2, and SL 3 Go on file (all required)
Prerequisite Codes	SL 1, SL 2, SL 3
Audience	Fires/FSCOORD staff, fire support officers, targeting personnel
Target MOS/Branch	13-series, FA30
Max Class Size	12
Min Class Size	4
Scheduling Cadence	Quarterly or as-needed
Instructor Ratio	8:1
Instructor Qualification	SL 4B certified; Fires/FSCOORD functional background; SL 3 proficiency
Access Level Required	Builder
Provisioning Lead Time	5 duty days
Evaluation	Practical exercise (GO/NO-GO)
Hard NO-GO	Fire support product without FSCM visualization or clearance-of-fires integration
Remediation Hours	4 hours
Remediation Method	Supervised lab on failed tasks; build from scratch on a different dataset
Security Clearance	None required
Doctrinal References	FM 3-09, ATP 3-09.42, FM 3-60

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS production + WFF-specific datasets
Facilities	Classroom, projector
Special Equipment	None

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	1.0
Laboratory (hands-on)	15.0
Discussion / Review	1.0
Workshop / Seminar	0.0
Evaluation	3.0
Review / Scenario Brief (unattributed)	4.0
Total	**24.0**

Blocks of Instruction

Detailed block-of-instruction tables are maintained in the applicable Lesson Plan Outlines and Syllabus. See WFF Lesson Plan Outlines (SL 4A–F) or SL 5 Advanced Lesson Plan Outlines.

T&EO Task Crosswalk

T&EO task crosswalk maintained in TEO_MSS.md. See applicable course section.

SL 4C: Movement and Maneuver Warfighting Function

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 4C
Course Title	Movement and Maneuver Warfighting Function
Tier	WFF Functional (Tier 4)
Duration	3 days (24 hours)
Prerequisites	SL 1, SL 2, and SL 3 Go on file (all required)
Prerequisite Codes	SL 1, SL 2, SL 3
Audience	G3/S3 movement and maneuver staff
Target MOS/Branch	Operations staff, maneuver planners
Max Class Size	12
Min Class Size	4

Field	Value
Scheduling Cadence	Quarterly or as-needed
Instructor Ratio	8:1
Instructor Qualification	SL 4C certified; G3/S3 movement and maneuver background; SL 3 proficiency
Access Level Required	Builder
Provisioning Lead Time	5 duty days
Evaluation	Practical exercise (GO/NO-GO)
Hard NO-GO	Movement tracker without unit position currency or route status attribution
Remediation Hours	4 hours
Remediation Method	Supervised lab on failed tasks; build from scratch on a different dataset
Security Clearance	None required
Doctrinal References	FM 3-90-1, ATP 3-90.1, ADP 3-90

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS production + WFF-specific datasets
Facilities	Classroom, projector
Special Equipment	None

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	1.0
Laboratory (hands-on)	15.0
Discussion / Review	1.0
Workshop / Seminar	0.0
Evaluation	3.0
Review / Scenario Brief (unattributed)	4.0
Total	**24.0**

Blocks of Instruction

Detailed block-of-instruction tables are maintained in the applicable Lesson Plan Outlines and Syllabus. See WFF Lesson Plan Outlines (SL 4A–F) or SL 5 Advanced Lesson Plan Outlines.

T&EO Task Crosswalk

T&EO task crosswalk maintained in TEO_MSS.md. See applicable course section.

SL 4D: Sustainment Warfighting Function

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 4D
Course Title	Sustainment Warfighting Function
Tier	WFF Functional (Tier 4)
Duration	3 days (24 hours)
Prerequisites	SL 1, SL 2, and SL 3 Go on file (all required)
Prerequisite Codes	SL 1, SL 2, SL 3
Audience	G4/S4 sustainment staff
Target MOS/Branch	92-series, sustainment planners
Max Class Size	12
Min Class Size	4
Scheduling Cadence	Quarterly or as-needed
Instructor Ratio	8:1
Instructor Qualification	SL 4D certified; G4/S4 sustainment background; SL 3 proficiency
Access Level Required	Builder
Provisioning Lead Time	5 duty days
Evaluation	Practical exercise (GO/NO-GO)
Hard NO-GO	Logistics dashboard without data-as-of timestamp or supply status attribution
Remediation Hours	4 hours
Remediation Method	Supervised lab on failed tasks; build from scratch on a different dataset

Field	Value
Security Clearance	None required
Doctrinal References	FM 4-0, ATP 4-93, ATP 4-42

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS production + WFF-specific datasets
Facilities	Classroom, projector
Special Equipment	None

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	1.0
Laboratory (hands-on)	15.0
Discussion / Review	1.0
Workshop / Seminar	0.0
Evaluation	3.0
Review / Scenario Brief (unattributed)	4.0
Total	**24.0**

Blocks of Instruction

Detailed block-of-instruction tables are maintained in the applicable Lesson Plan Outlines and Syllabus. See WFF Lesson Plan Outlines (SL 4A–F) or SL 5 Advanced Lesson Plan Outlines.

T&EO Task Crosswalk

T&EO task crosswalk maintained in TEO_MSS.md. See applicable course section.

SL 4E: Protection Warfighting Function

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 4E
Course Title	Protection Warfighting Function
Tier	WFF Functional (Tier 4)
Duration	3 days (24 hours)
Prerequisites	SL 1, SL 2, and SL 3 Go on file (all required)
Prerequisite Codes	SL 1, SL 2, SL 3
Audience	Protection staff
Target MOS/Branch	Protection cell, AT/FP, physical security
Max Class Size	12
Min Class Size	4
Scheduling Cadence	Quarterly or as-needed
Instructor Ratio	8:1
Instructor Qualification	SL 4E certified; Protection functional background; SL 3 proficiency
Access Level Required	Builder
Provisioning Lead Time	5 duty days
Evaluation	Practical exercise (GO/NO-GO)
Hard NO-GO	Protection product without threat condition linkage or incident tracking attribution
Remediation Hours	4 hours
Remediation Method	Supervised lab on failed tasks; build from scratch on a different dataset
Security Clearance	None required
Doctrinal References	ADP 3-37, ATP 3-37.34, ATP 3-37.2

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS production + WFF-specific datasets

Requirement	Detail
Facilities	Classroom, projector
Special Equipment	None

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	1.0
Laboratory (hands-on)	15.0
Discussion / Review	1.0
Workshop / Seminar	0.0
Evaluation	3.0
Review / Scenario Brief (unattributed)	4.0
Total	**24.0**

Blocks of Instruction

Detailed block-of-instruction tables are maintained in the applicable Lesson Plan Outlines and Syllabus. See WFF Lesson Plan Outlines (SL 4A–F) or SL 5 Advanced Lesson Plan Outlines.

T&EO Task Crosswalk

T&EO task crosswalk maintained in TEO_MSS.md. See applicable course section.

SL 4F: Mission Command Warfighting Function

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 4F
Course Title	Mission Command Warfighting Function
Tier	WFF Functional (Tier 4)
Duration	3 days (24 hours)
Prerequisites	SL 1, SL 2, and SL 3 Go on file (all required)
Prerequisite Codes	SL 1, SL 2, SL 3

Field	Value
Audience	MC/G6/S6 staff
Target MOS/Branch	25-series, signal officers, mission command planners
Max Class Size	12
Min Class Size	4
Scheduling Cadence	Quarterly or as-needed
Instructor Ratio	8:1
Instructor Qualification	SL 4F certified; Mission Command/G6 background; SL 3 proficiency
Access Level Required	Builder
Provisioning Lead Time	5 duty days
Evaluation	Practical exercise (GO/NO-GO)
Hard NO-GO	COP configuration without network status integration or data feed health monitoring
Remediation Hours	4 hours
Remediation Method	Supervised lab on failed tasks; build from scratch on a different dataset
Security Clearance	None required
Doctrinal References	ADP 6-0, FM 6-0, ATP 6-0.5

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS production + WFF-specific datasets
Facilities	Classroom, projector
Special Equipment	None

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	1.0
Laboratory (hands-on)	15.0
Discussion / Review	1.0

Method	Hours
Workshop / Seminar	0.0
Evaluation	3.0
Review / Scenario Brief (unattributed)	4.0
Total	**24.0**

Blocks of Instruction

Detailed block-of-instruction tables are maintained in the applicable Lesson Plan Outlines and Syllabus. See WFF Lesson Plan Outlines (SL 4A–F) or SL 5 Advanced Lesson Plan Outlines.

T&EO Task Crosswalk

T&EO task crosswalk maintained in TEO_MSS.md. See applicable course section.

SL 4G: ORSA Specialist

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 4G
Course Title	ORSA Specialist
Tier	Specialist (Tier 4)
Duration	5 days (40 hours)
Prerequisites	SL 1, SL 2, SL 3 Go on file (all required); quantitative background (statistics, linear algebra); Python or R proficiency
Prerequisite Codes	SL 1, SL 2, SL 3
Audience	ORSA analysts
Target MOS/Branch	FA49, operations research analysts
Max Class Size	6
Min Class Size	2

Field	Value
Scheduling Cadence	Semi-annual or on demand
Instructor Ratio	4:1
Instructor Qualification	FA49 or equivalent ORSA background; SL 4G certified or C2DAO SME designation
Access Level Required	Code Workspace (CPU or GPU) + standard Editor
Provisioning Lead Time	10 duty days
Evaluation	Practical exercise (6 tasks); evaluated commander brief; GO/NO-GO
Hard NO-GO	Point estimate without confidence/credible interval; undocumented assumptions
Remediation Hours	8 hours
Remediation Method	Full-day supervised lab; rebuilding failed components
Security Clearance	None required

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS training sandbox + development environment
Facilities	Lab with individual workstations
Special Equipment	Code Workspace (CPU); IDE access

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	2.0
Laboratory (hands-on)	30.0
Discussion / Review	1.0
Workshop / Seminar	0.0

Method	Hours
Evaluation	4.0
Review / Scenario Brief (unattributed)	3.0
Total	**40.0**

Blocks of Instruction

Block	Title	Hours	Method	Reference
1	ORSA Role on MSS; Analytical Product Standards; Foundry Data Model	1	BRF	TM-40G Ch 1-2
2	Code Workspace Setup: Package Install, GPU/CPU Allocation, Reproducibility	2	LAB	TM-40G Ch 2 Sec 2-3
3	Foundry Dataset Connectivity: Reading via Spark/Pandas, Schema Inspection	0.75	LAB	TM-40G Ch 2 Sec 2-4
4	Writing Outputs to Foundry: Transaction Pattern for Results to Curated Datasets	2	LAB	TM-40G Ch 2 Sec 2-5
5	Data Profiling: Null Distributions, Outlier Detection, Feature Distributions	1.8	LAB	TM-40G Ch 3 Sec 3-1
6	Regression: Linear Regression for Readiness Forecasting, Validation Statistics	2	LAB	TM-40G Ch 3 Sec 3-2
7	Classification Models: Logistic Regression, Decision Trees, Cross-Validation	1.2	LAB	TM-40G Ch 3 Sec 3-3
8	Model Validation Standards: Residual Analysis, Documenting Assumptions	2	LAB	TM-40G Ch 3 Sec 3-4
9	Practice Build: Regression to Foundry Output to Quiver Visualization	1.8	LAB	TM-40G Ch 3
10	Time Series: Stationarity, ACF/PACF, ARIMA Model Identification	2	LAB	TM-40G Ch 4 Sec 4-1
11	ARIMA/SARIMA Build: Readiness Trend with 90% Confidence Bounds	1.2	LAB	TM-40G Ch 4 Sec 4-2
12	Monte Carlo: COA Comparison, Distribution Selection, 1000-Trial Simulation	2	LAB	TM-40G Ch 5
13	Sensitivity Analysis; Logistics Stockage Risk Modeling	1.8	LAB	TM-40G Ch 5 Sec 5-3

Block	Title	Hours	Method	Reference
14	Linear Programming: Resource Allocation Formulation, scipy/lpSolve	2	LAB	TM-40G Ch 6
15	Scheduling Optimization: Maintenance vs. Operational Commitments	1.2	LAB	TM-40G Ch 6 Sec 6-3
16	Wargame/Exercise Data Architecture: Collection Templates, Analysis Pipeline	2	LAB	TM-40G Ch 7
17	Quiver/Contour for ORSA: Forecast Dashboard, COA Comparison, Uncertainty Bounds	1.8	LAB	TM-40G Ch 8
18	Communicating Uncertainty: Confidence Intervals, Briefing Posture, Translation	1	LEC	TM-40G Ch 9
19	Common ORSA Brief Failures: Point Estimates Without Bounds, Methods-Paper Language	1	DIS	TM-40G Ch 9
20	Practical Exercise Scenario Brief and ORSA Product Standards Review	1.5	BRF	—
21	Practical Exercise (Evaluated): Regression + Time Series + Commander Brief	4	EVAL	TM-40G Practical Exercise Guide

T&EO Task Crosswalk

- SL4G-01: Configure Code Workspace and Verify Foundry Connectivity
- SL4G-02: Build Regression Model for Readiness Forecasting
- SL4G-03: Build Time Series Model with Confidence Bounds
- SL4G-04: Run Monte Carlo Simulation for COA Comparison
- SL4G-05: Build ORSA Forecast Dashboard
- SL4G-06: Deliver Commander Brief with Documented Uncertainty

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SL 4H: AI Engineer

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 4H
Course Title	AI Engineer

Field	Value
Tier	Specialist (Tier 4)
Duration	5 days (40 hours)
Prerequisites	SL 1, SL 2, SL 3 Go on file (all required); Python proficiency; Data Literacy Technical Reference read
Prerequisite Codes	SL 1, SL 2, SL 3
Audience	AI/ML specialists building AIP workflows
Target MOS/Branch	AI engineers, data scientists with AIP focus
Max Class Size	6
Min Class Size	2
Scheduling Cadence	Semi-annual or on demand
Instructor Ratio	4:1
Instructor Qualification	AIP Logic authoring experience; C2DAO AI SME designation; SL 4H certified
Access Level Required	AIP Logic authoring + Agent Studio
Provisioning Lead Time	10 duty days
Evaluation	Practical exercise (7 tasks); AIP Authorization Checklist review; GO/NO-GO
Hard NO-GO	Any AIP workflow writes to production Objects without human checkpoint
Remediation Hours	8 hours
Remediation Method	Full-day supervised lab; rebuilding failed components
Security Clearance	None required

MANDATORY ATTENDANCE: Day 1 Block 1 (AI Safety Seminar) is mandatory — no exceptions, no rescheduling

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS training sandbox + development environment
Facilities	Lab with individual workstations

Requirement	Detail
Special Equipment	AIP Logic authoring access; Agent Studio access; IDE

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	3.8
Laboratory (hands-on)	28.2
Discussion / Review	0.0
Workshop / Seminar	2.0
Evaluation	4.0
Review / Scenario Brief (unattributed)	2.0
Total	**40.0**

Blocks of Instruction

Detailed block-of-instruction tables are maintained in the applicable Lesson Plan Outlines and Syllabus. See WFF Lesson Plan Outlines (SL 4A–F) or SL 5 Advanced Lesson Plan Outlines.

T&EO Task Crosswalk

T&EO task crosswalk maintained in TEO_MSS.md. See applicable course section.

SL 4M: ML Engineer

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 4M
Course Title	ML Engineer
Tier	Specialist (Tier 4)
Duration	5 days (40 hours)
Prerequisites	SL 1, SL 2, SL 3 Go on file (all required); Python proficiency (pandas, scikit-learn, PyTorch or equivalent)
Prerequisite Codes	SL 1, SL 2, SL 3

Field	Value
Audience	ML engineers building/deploying models on Foundry
Target MOS/Branch	MLEs, data scientists with model deployment focus
Max Class Size	6
Min Class Size	2
Scheduling Cadence	Semi-annual or on demand
Instructor Ratio	4:1
Instructor Qualification	ML production experience; SL 4M certified; C2DAO MLE SME designation
Access Level Required	GPU-enabled Code Workspace
Provisioning Lead Time	10 duty days
Evaluation	Practical exercise (7 tasks); model card review; GO/NO-GO
Hard NO-GO	Model calibration not performed; governance document missing required sections
Remediation Hours	8 hours
Remediation Method	Full-day supervised lab; rebuilding failed components
Security Clearance	None required

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS training sandbox + development environment
Facilities	Lab with individual workstations
Special Equipment	GPU-enabled Code Workspace; IDE

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	1.0

Method	Hours
Laboratory (hands-on)	31.0
Discussion / Review	0.0
Workshop / Seminar	0.0
Evaluation	4.0
Review / Scenario Brief (unattributed)	4.0
Total	**40.0**

Blocks of Instruction

Detailed block-of-instruction tables are maintained in the applicable Lesson Plan Outlines and Syllabus. See WFF Lesson Plan Outlines (SL 4A–F) or SL 5 Advanced Lesson Plan Outlines.

T&EO Task Crosswalk

T&EO task crosswalk maintained in TEO_MSS.md. See applicable course section.

SL 4J: Program Manager

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 4J
Course Title	Program Manager
Tier	Specialist (Tier 4)
Duration	4 days (32 hours)
Prerequisites	SL 1, SL 2, SL 3 Go on file (all required)
Prerequisite Codes	SL 1, SL 2, SL 3
Audience	Program managers, G8/S8 resource managers
Target MOS/Branch	FA51, program/resource managers
Max Class Size	8
Min Class Size	3
Scheduling Cadence	Quarterly
Instructor Ratio	6:1

Field	Value
Instructor Qualification	Program management background; SL 3 certified; GFEBS/IMS proficiency
Access Level Required	Builder
Provisioning Lead Time	5 duty days
Evaluation	Practical exercise (7 tasks); PM Dashboard Standards Checklist review; GO/NO-GO
Hard NO-GO	Dashboard has no data-as-of timestamp
Remediation Hours	4 hours
Remediation Method	Supervised lab on failed tasks; build from scratch on a different dataset
Security Clearance	None required

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS training sandbox + development environment
Facilities	Lab with individual workstations
Special Equipment	None

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	0.5
Laboratory (hands-on)	17.8
Discussion / Review	0.5
Workshop / Seminar	0.0
Evaluation	4.0
Review / Scenario Brief (unattributed)	9.2
Total	**32.0**

Blocks of Instruction

Detailed block-of-instruction tables are maintained in the applicable Lesson Plan Outlines and Syllabus. See WFF Lesson Plan Outlines (SL 4A–F) or SL 5 Advanced Lesson Plan Outlines.

T&EO Task Crosswalk

T&EO task crosswalk maintained in TEO_MSS.md. See applicable course section.

SL 4K: Knowledge Manager

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 4K
Course Title	Knowledge Manager
Tier	Specialist (Tier 4)
Duration	4 days (32 hours)
Prerequisites	SL 1, SL 2, SL 3 Go on file (all required)
Prerequisite Codes	SL 1, SL 2, SL 3
Audience	Knowledge managers, KMOs (37F)
Target MOS/Branch	37F, knowledge management officers
Max Class Size	8
Min Class Size	3
Scheduling Cadence	Quarterly
Instructor Ratio	6:1
Instructor Qualification	Knowledge management background; SL 3 certified; AIP Logic configuration proficiency
Access Level Required	Builder + AIP Logic configuration
Provisioning Lead Time	7 duty days
Evaluation	Practical exercise (6 tasks); PCS package instructor review; GO/NO-GO
Hard NO-GO	AIP workflow auto-publishes without human review gate

Field	Value
Remediation Hours	4 hours
Remediation Method	Supervised lab on failed tasks; build from scratch on a different dataset
Security Clearance	None required

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS training sandbox + development environment
Facilities	Lab with individual workstations
Special Equipment	AIP Logic configuration access

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	1.0
Laboratory (hands-on)	14.2
Discussion / Review	0.0
Workshop / Seminar	2.2
Evaluation	4.0
Review / Scenario Brief (unattributed)	10.5
Total	**32.0**

Blocks of Instruction

Detailed block-of-instruction tables are maintained in the applicable Lesson Plan Outlines and Syllabus. See WFF Lesson Plan Outlines (SL 4A–F) or SL 5 Advanced Lesson Plan Outlines.

T&EO Task Crosswalk

T&EO task crosswalk maintained in TEO_MSS.md. See applicable course section.

SL 4L: Software Engineer

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 4L
Course Title	Software Engineer
Tier	Specialist (Tier 4)
Duration	5 days (40 hours)
Prerequisites	SL 1, SL 2, SL 3 Go on file (all required); TypeScript or Python proficiency; REST API familiarity
Prerequisite Codes	SL 1, SL 2, SL 3
Audience	Software engineers building Foundry integrations
Target MOS/Branch	SWEs, developers, 17-series with coding background
Max Class Size	6
Min Class Size	2
Scheduling Cadence	Semi-annual or on demand
Instructor Ratio	4:1
Instructor Qualification	Software engineering background; OSDK/Platform SDK proficiency; SL 4L certified
Access Level Required	OSDK developer access + developer token
Provisioning Lead Time	10 duty days
Evaluation	Practical exercise (6 tasks); validator test suite (8 test cases); deployment checklist review; GO/NO-GO
Hard NO-GO	Hardcoded credential in application code; validator test suite not fully passing
Remediation Hours	8 hours
Remediation Method	Full-day supervised lab; rebuilding failed components
Security Clearance	None required

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS training sandbox + development environment
Facilities	Lab with individual workstations
Special Equipment	OSDK developer access; developer token; IDE

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	2.0
Laboratory (hands-on)	30.0
Discussion / Review	0.0
Workshop / Seminar	0.0
Evaluation	4.0
Review / Scenario Brief (unattributed)	4.0
Total	**40.0**

Blocks of Instruction

Detailed block-of-instruction tables are maintained in the applicable Lesson Plan Outlines and Syllabus. See WFF Lesson Plan Outlines (SL 4A–F) or SL 5 Advanced Lesson Plan Outlines.

T&EO Task Crosswalk

T&EO task crosswalk maintained in TEO_MSS.md. See applicable course section.

SL 5G: Advanced ORSA

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 5G

Field	Value
Course Title	Advanced ORSA
Tier	Advanced Specialist (Tier 5)
Duration	5 days (40 hours)
Prerequisites	SL 4G Go on file (required); active ORSA role at theater level
Prerequisite Codes	SL 1, SL 2, SL 3, SL 4G
Audience	Senior ORSA analysts
Target MOS/Branch	FA49, senior operations research analysts
Max Class Size	6
Min Class Size	2
Scheduling Cadence	Annual or on demand
Instructor Ratio	4:1
Instructor Qualification	FA49 O-4+ or equivalent; SL 5G certified or C2DAO Advanced ORSA SME; active analytical practice at theater level
Access Level Required	Code Workspace (CPU/GPU) + Editor
Provisioning Lead Time	10 duty days
Evaluation	Practical exercise; peer-reviewed analytical product; GO/NO-GO
Hard NO-GO	Product without uncertainty quantification, documented assumptions, peer review, or reproducibility
Remediation Hours	8 hours
Remediation Method	Full-day supervised lab; rebuilding failed components
Security Clearance	None required

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS training sandbox + development environment
Facilities	Lab with individual workstations
Special Equipment	Code Workspace (CPU/GPU); IDE

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	2.0
Laboratory (hands-on)	30.0
Discussion / Review	1.0
Workshop / Seminar	1.0
Evaluation	4.0
Review / Scenario Brief (unattributed)	2.0
Total	**40.0**

Blocks of Instruction

Detailed block-of-instruction tables are maintained in the applicable Lesson Plan Outlines and Syllabus. See WFF Lesson Plan Outlines (SL 4A–F) or SL 5 Advanced Lesson Plan Outlines.

T&EO Task Crosswalk

T&EO task crosswalk maintained in TEO_MSS.md. See applicable course section.

SL 5H: Advanced AI Engineer

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 5H
Course Title	Advanced AI Engineer
Tier	Advanced Specialist (Tier 5)

Field	Value
Duration	5 days (40 hours)
Prerequisites	SL 4H Go on file (required)
Prerequisite Codes	SL 1, SL 2, SL 3, SL 4H
Audience	Senior AI engineers
Target MOS/Branch	AI engineers with production AIP experience
Max Class Size	6
Min Class Size	2
Scheduling Cadence	Annual or on demand
Instructor Ratio	4:1
Instructor Qualification	SL 5H certified or C2DAO Advanced AI SME; production AIP/Agent Studio experience
Access Level Required	AIP Logic authoring + Agent Studio + Code Workspace
Provisioning Lead Time	10 duty days
Evaluation	Practical exercise; GO/NO-GO
Hard NO-GO	Agent deployed without authorization controls or human oversight
Remediation Hours	8 hours
Remediation Method	Full-day supervised lab; rebuilding failed components
Security Clearance	None required

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS training sandbox + development environment
Facilities	Lab with individual workstations
Special Equipment	AIP authoring; Agent Studio; Code Workspace; IDE

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	2.0
Laboratory (hands-on)	30.0
Discussion / Review	0.0
Workshop / Seminar	2.0
Evaluation	4.0
Review / Scenario Brief (unattributed)	2.0
Total	**40.0**

Blocks of Instruction

Detailed block-of-instruction tables are maintained in the applicable Lesson Plan Outlines and Syllabus. See WFF Lesson Plan Outlines (SL 4A–F) or SL 5 Advanced Lesson Plan Outlines.

T&EO Task Crosswalk

T&EO task crosswalk maintained in TEO_MSS.md. See applicable course section.

SL 5M: Advanced ML Engineer

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 5M
Course Title	Advanced ML Engineer
Tier	Advanced Specialist (Tier 5)
Duration	5 days (40 hours)
Prerequisites	SL 4M Go on file (required)
Prerequisite Codes	SL 1, SL 2, SL 3, SL 4M
Audience	Senior ML engineers
Target MOS/Branch	MLEs with production model deployment experience
Max Class Size	6
Min Class Size	2

Field	Value
Scheduling Cadence	Annual or on demand
Instructor Ratio	4:1
Instructor Qualification	SL 5M certified or C2DAO Advanced MLE SME; production ML pipeline experience
Access Level Required	GPU-enabled Code Workspace + Editor
Provisioning Lead Time	10 duty days
Evaluation	Practical exercise; model governance review; GO/NO-GO
Hard NO-GO	Model deployed without drift monitoring or governance documentation
Remediation Hours	8 hours
Remediation Method	Full-day supervised lab; rebuilding failed components
Security Clearance	None required

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS training sandbox + development environment
Facilities	Lab with individual workstations
Special Equipment	GPU-enabled Code Workspace; IDE

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	1.0
Laboratory (hands-on)	31.0
Discussion / Review	0.0
Workshop / Seminar	0.0
Evaluation	4.0
Review / Scenario Brief (unattributed)	4.0
Total	**40.0**

Blocks of Instruction

Detailed block-of-instruction tables are maintained in the applicable Lesson Plan Outlines and Syllabus. See WFF Lesson Plan Outlines (SL 4A–F) or SL 5 Advanced Lesson Plan Outlines.

T&EO Task Crosswalk

T&EO task crosswalk maintained in TEO_MSS.md. See applicable course section.

SL 5J: Advanced Program Manager

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 5J
Course Title	Advanced Program Manager
Tier	Advanced Specialist (Tier 5)
Duration	3 days (24 hours)
Prerequisites	SL 4J Go on file (required)
Prerequisite Codes	SL 1, SL 2, SL 3, SL 4J
Audience	Senior program managers
Target MOS/Branch	FA51, senior resource/program managers
Max Class Size	8
Min Class Size	3
Scheduling Cadence	Annual or on demand
Instructor Ratio	6:1
Instructor Qualification	SL 5J certified or C2DAO Advanced PM SME; enterprise portfolio management experience
Access Level Required	Builder + Editor
Provisioning Lead Time	7 duty days
Evaluation	Practical exercise; GO/NO-GO
Hard NO-GO	Portfolio dashboard without cross-program roll-up or data currency indicator

Field	Value
Remediation Hours	4 hours
Remediation Method	Supervised lab on failed tasks
Security Clearance	None required

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS training sandbox + development environment
Facilities	Lab with individual workstations
Special Equipment	None

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	1.0
Laboratory (hands-on)	15.0
Discussion / Review	1.0
Workshop / Seminar	0.0
Evaluation	4.0
Review / Scenario Brief (unattributed)	3.0
Total	**24.0**

Blocks of Instruction

Detailed block-of-instruction tables are maintained in the applicable Lesson Plan Outlines and Syllabus. See WFF Lesson Plan Outlines (SL 4A–F) or SL 5 Advanced Lesson Plan Outlines.

T&EO Task Crosswalk

T&EO task crosswalk maintained in TEO_MSS.md. See applicable course section.

SL 5K: Advanced Knowledge Manager

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 5K
Course Title	Advanced Knowledge Manager
Tier	Advanced Specialist (Tier 5)
Duration	3 days (24 hours)
Prerequisites	SL 4K Go on file (required)
Prerequisite Codes	SL 1, SL 2, SL 3, SL 4K
Audience	Senior knowledge managers
Target MOS/Branch	37F, senior KMOs
Max Class Size	8
Min Class Size	3
Scheduling Cadence	Annual or on demand
Instructor Ratio	6:1
Instructor Qualification	SL 5K certified or C2DAO Advanced KM SME; enterprise KM architecture experience
Access Level Required	Builder + AIP Logic configuration + Editor
Provisioning Lead Time	7 duty days
Evaluation	Practical exercise; GO/NO-GO
Hard NO-GO	Knowledge architecture without lifecycle governance or audit trail
Remediation Hours	4 hours
Remediation Method	Supervised lab on failed tasks
Security Clearance	None required

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader

Requirement	Detail
Network Access	MSS training sandbox + development environment
Facilities	Lab with individual workstations
Special Equipment	AIP Logic configuration access

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	1.0
Laboratory (hands-on)	15.0
Discussion / Review	0.0
Workshop / Seminar	2.0
Evaluation	4.0
Review / Scenario Brief (unattributed)	2.0
Total	**24.0**

Blocks of Instruction

Detailed block-of-instruction tables are maintained in the applicable Lesson Plan Outlines and Syllabus. See WFF Lesson Plan Outlines (SL 4A–F) or SL 5 Advanced Lesson Plan Outlines.

T&EO Task Crosswalk

T&EO task crosswalk maintained in TEO_MSS.md. See applicable course section.

SL 5L: Advanced Software Engineer

Field	Value
ATIS Course Number	[TBD — assigned by ATIS upon registration]
Internal Designator	SL 5L
Course Title	Advanced Software Engineer
Tier	Advanced Specialist (Tier 5)
Duration	5 days (40 hours)
Prerequisites	SL 4L Go on file (required)

Field	Value
Prerequisite Codes	SL 1, SL 2, SL 3, SL 4L
Audience	Senior software engineers
Target MOS/Branch	SWEs, senior developers, 17-series with advanced coding
Max Class Size	6
Min Class Size	2
Scheduling Cadence	Annual or on demand
Instructor Ratio	4:1
Instructor Qualification	SL 5L certified or C2DAO Advanced SWE SME; production Foundry integration experience
Access Level Required	OSDK developer + Platform SDK + Code Workspace
Provisioning Lead Time	10 duty days
Evaluation	Practical exercise; CI/CD pipeline review; GO/NO-GO
Hard NO-GO	Hardcoded credential; no automated test coverage; deployment without review
Remediation Hours	8 hours
Remediation Method	Full-day supervised lab; rebuilding failed components
Security Clearance	None required

Equipment and Facility Requirements

Requirement	Detail
Workstation	Government workstation with CAC reader
Network Access	MSS training sandbox + development environment
Facilities	Lab with individual workstations
Special Equipment	OSDK developer access; Platform SDK; Code Workspace; IDE

Academic Hours by Instructional Method

Method	Hours
Lecture / Brief	2.0

Method	Hours
Laboratory (hands-on)	30.0
Discussion / Review	0.0
Workshop / Seminar	0.0
Evaluation	4.0
Review / Scenario Brief (unattributed)	4.0
Total	**40.0**

Blocks of Instruction

Detailed block-of-instruction tables are maintained in the applicable Lesson Plan Outlines and Syllabus. See WFF Lesson Plan Outlines (SL 4A–F) or SL 5 Advanced Lesson Plan Outlines.

T&EO Task Crosswalk

T&EO task crosswalk maintained in TEO_MSS.md. See applicable course section.

AMENDMENT RECORD

Amendment	Date	Description	Approved By
Initial Publication	March 2026	Initial ATIS course registration packet	C2DAO

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