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COURSE SYLLABUS

# SL 4C



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## COURSE SYLLABUS — SL 4C: MOVEMENT AND MANEUVER WARFIGHTING FUNCTION

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*Maven Smart System (MSS) — USAREUR-AF*

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

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# COURSE SYLLABUS — SL 4C: MOVEMENT AND MANEUVER WARFIGHTING FUNCTION

## MAVEN SMART SYSTEM (MSS) — USAREUR-AF

Field	Detail
Level	SL 4C — Movement and Maneuver WFF Track
Duration	3 days (24 hours)
Prerequisites	SL 1, SL 2, SL 3 (Go evaluations on file); CONCEPTS_GUIDE_TM40C_MOVEMENT_MANEUVER (required reading before Day 1)
Audience	G3/S3 maneuver staff, operations officers, assistant S3s, S3 NCOs, and maneuver planners at BCT echelon and below
Format	Instructor-led seminar + demonstration + tabletop exercise + practical evaluation
Location	MSS Training Environment (standard user access sufficient)

**BLUF:** SL 4C teaches G3/S3 staff to integrate MSS into maneuver workflows — maintaining the maneuver COP, tracking unit positions and route data, building MDMP support products, and sustaining task organization visibility. Course applies MSS capabilities to processes in ADP 3-0, FM 3-0, and ATP 3-90.90. No coding or pipeline experience required.

## LEARNING OBJECTIVES

#	Objective
1	Configure and maintain a maneuver COP — unit positions, axes of advance, routes, phase lines, and obstacle overlays — with data freshness verification
2	Build and configure movement-relevant CCIR alerts — phase line crossings, objective status updates, and unit position reporting gaps

#	Objective
3	Build operational visualization products to support MDMP, including COA sketch overlays and task organization display aligned to a notional OPORD
4	Display and maintain task organization visibility across all subordinate maneuver elements
5	Verify data currency for unit position feeds; identify reporting gaps and stale position data; apply correct caveats before briefing
6	Configure traffic control point and route data layers to support ground mobility analysis and movement synchronization
7	Apply OPSEC procedures to maneuver data products: unit position data, axes of advance, and route overlays
8	Distinguish reported positions (what MSS displays from received reporting) from confirmed positions (what the S3 has verified through voice or digital confirmation) and communicate that distinction explicitly

## PRE-COURSE CHECKLIST

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

- Read CONCEPTS\_GUIDE\_TM40C\_MOVEMENT\_MANEUVER in full — Day 1 builds directly on it
- Confirm MSS training account is active
- Bring your unit's current task organization chart (real or notional) — used on Day 2
- Review your unit's phase line and route naming conventions — Day 1 asks you to replicate them in MSS

## DAILY SCHEDULE

### Day 1 — Maneuver COP Configuration, Unit Positions, and Route Data

Time	Block	Method	Content
0800– 0900	1	Brief	Doctrinal context: ADP 3-0, FM 3-0; how MSS supports maneuver planning and execution; role of the maneuver COP
0900– 1100	2	Demo/L ab	Maneuver COP configuration: unit position layers, phase line and obstacle overlays, route data sources; display standards by echelon

Time	Block	Method	Content
1100–1115	—	Break	
1115–1200	3	Lab	Data currency verification: reading unit position timestamps, identifying reporting gaps, distinguishing reported from confirmed positions
1200–1300	—	Lunch	
1300–1500	4	Lab	Route and TCP data layers: ground mobility data, traffic control point overlays, movement synchronization displays
1500–1515	—	Break	
1515–1700	5	Exercise	CCIR configuration drill: given maneuver CCIRs from commander's guidance, configure phase line crossing and objective status triggers; verify they fire on test data

**Evening reading:** TM-40C, Chapter 8 (Force Tracking and Blue Force Situational Awareness) — data currency procedures for unit position feeds.

## Day 2 — Operational Visualization and MDMP Support Products

Time	Block	Method	Content
0800–0830	—	Review	Day 1 questions; common COP configuration errors; reported vs. confirmed position distinction
0830–1030	6	Demo/Lab	COA sketch overlay build: constructing maneuver COA graphics in MSS, linking to task organization data, formatting for commander presentation
1030–1045	—	Break	
1045–1200	7	Lab	Task organization display: building and maintaining task org visualization; configuring subordinate element status indicators
1200–1300	—	Lunch	
1300–1500	8	Demo/Lab	MDMP support products: decision support products for MDMP gates; wargame overlay support; synchronization matrix visualization
1500–1515	—	Break	

Time	Block	Method	Content
1515– 1700	9	Exercise	Operational visualization drill: build a COA overlay and task organization product from a provided OPORD fragment; evaluator reviews for data currency, task org accuracy, and OPSEC marking

**Evening reading:** TM-40C, Chapter 2 (Operational Planning and Orders in MSS) and Chapter 11 (Reporting and Products for Maneuver Operations).

### Day 3 — Position Feed Staleness, Degraded Procedures, and Practical Exercise

Time	Block	Method	Content
0800– 0900	10	Brief	Unit position data staleness: procedures when position feeds stop updating; risk of briefing stale positions as current; escalation path to S6 and reporting chain
0900– 1030	11	Demo/L ab	Degraded maneuver COP: maintaining an operational picture with partial position data; manual position update procedures; what to caveat in the operations brief
1030– 1045	—	Break	
1045– 1100	12	Brief	Practical exercise scenario brief; product standards checklist review; tabletop ground rules
1100– 1200	—	Prep	Practical exercise setup and planning time
1200– 1300	—	Lunch	
1300– 1700	13	<b>Eval</b>	<b>Practical exercise:</b> configure maneuver COP, build COA overlay and task organization display, configure movement CCIRs, respond to a unit position feed staleness inject, brief findings to evaluator in role as XO

## REQUIRED READING

When	Reading
Before Day 1	CONCEPTS_GUIDE_TM40C_MOVEMENT_MANEUVER (complete)

When	Reading
Day 1 evening	TM-40C, Ch 8 (Force Tracking and Blue Force Situational Awareness)
Day 2 evening	TM-40C, Ch 2 (Operational Planning and Orders in MSS)
Day 2 evening	TM-40C, Ch 11 (Reporting and Products for Maneuver Operations)
Day 3 (review)	TM-40C, Ch 10 (Degraded Operations) — skim before Day 3 brief

## PRACTICAL EXERCISE

**Scenario:** You are the assistant S3 at a BCT headquarters during an exercise. The S3 requires a configured maneuver COP — unit positions, phase lines, route overlays, maneuver CCIRs active — and a COA overlay product before an attack order brief in four hours. At T+90 minutes, the 2nd Battalion position feed stops updating.

#	Task
1	Configure the maneuver COP with unit positions, phase lines, and route overlays; verify data currency for all position feeds
2	Build a COA overlay product aligned to the provided OPORD fragment, including task organization display
3	Configure 3 maneuver CCIRs from the provided commander's guidance card, including a phase line crossing trigger and a unit position reporting gap alert
4	Build a task organization display showing all subordinate maneuver elements with current status indicators
5	Respond to the 2nd Battalion position feed staleness inject: identify affected COP elements, apply correct data caveats, and brief the evaluator on impact and resolution action
6	Apply OPSEC procedures to the final COA overlay product before simulated distribution

**Go standard:** Pass 5 of 6 tasks. No-Go on Task 1 (maneuver COP configuration) or Task 5 (data staleness response) = automatic No-Go regardless of total score.

## GO CRITERIA

Task	Hard Standard
Unit positions	Must have verified timestamps — the evaluator will ask how you know the data is current. No timestamp for a position layer = fail for that element
COA overlay	Must be linked to task organization data, not built as a static graphic — evaluator will modify an element and verify the overlay reflects the change
Data staleness inject	Immediate characterization is required, not a fix attempt. Characterize affected COP elements, apply caveats, escalate to S6. Spending time attempting to restore the feed will not complete the characterization in time

### Function-Specific Go Criteria — Movement and Maneuver

Criterion	Standard
Phase line CCIRs	At least one of the three required CCIRs must be a phase line crossing alert — a phase line CCIR that triggers on unit proximity rather than confirmed reporting fails this element
Task organization display	Task organization view must reflect the current task org from the provided scenario data — a display that shows a default/template task org without reading scenario data fails
COA overlay accuracy	COA overlay product must include phase lines, unit boundaries, and routes from the provided scenario — any missing graphic control measure is a No-Go for that element

## KEY TIPS

Risk	Guidance
Phase lines and route overlays	Drawn manually without a data source connection fail the data currency check — link every layer to a source before Day 1
Reported vs. confirmed position	Adopt a consistent caveat format before the exercise: "position as of [DTG] per reporting, not confirmed" — apply it every time
Day 2 COA overlay	Moves fast — arrive knowing the OPORD fragment format and how task organization elements map to MSS layer types

Risk	Guidance
CCIR troubleshooting	Maneuver CCIRs tied to unit position feeds fail silently when the position feed is stale — the CCIR never triggers because the data never updates. Always verify position feed data currency before declaring CCIR configuration complete. A CCIR built on a stale feed is not a functional CCIR

## ASSOCIATED EXERCISE AND EXAMS

Item	Reference
<b>Practical Exercise</b>	EX_40C (EXERCISE.md + ENVIRONMENT_SETUP.md) — <a href="#">exercises/EX_40C_movement_maneuver/</a>
<b>Pre-course exam</b>	EXAM_TM40C_PRE — <a href="#">exercises/exams/EXAM_TM40C_PRE.md</a>
<b>Post-course exam</b>	EXAM_TM40C_POST — <a href="#">exercises/exams/EXAM_TM40C_POST.md</a>

## RELATED WFF TRACKS

SL 4C is one of six WFF tracks. All require SL 1, SL 2, and SL 3 as prerequisites.

Track	WFF	Audience
SL 4A	Intelligence	G2/S2 staff, targeting officers, all-source analysts
SL 4B	Fires	FSOs, FSEs, targeting officers, fires NCOs
SL 4C	Movement & Maneuver	G3/S3 staff, operations officers, maneuver planners
SL 4D	Sustainment	G4/S4 staff, logistics officers, supply chain managers
SL 4E	Protection	FP officers, CBRN officers, provost marshal staff
SL 4F	Mission Command	Battle captains, XOs, CDRs, MC-function staff

Personnel completing multiple WFF tracks do not repeat SL 1, SL 2, or SL 3. Enrollment is independent for each track.

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