COMPANION GUIDE TO ONLINE TRAINING

Use alongside the online lessons at fortunefavorsthepreparedmd.com/com-04-landing/

COM-04
EMCON (Emissions Control)
STUDENT COMPANION GUIDE

Emissions Control and the Transmission-Security Practices That Support It

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A field reference for the five-lesson EMCON course — condensed summaries, blank worksheets, and doctrinal sources. Assumes each lesson has already been completed online.

5 Lessons | 10 Knowledge Checks | 2 Worksheets | Doctrinal Sources

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COM-04: EMCON (Emissions Control)

Companion Guide to Online Training

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Support the development and availability of these courses by subscribing to my Patreon. This guide is not a standalone course.

It supports the online lessons at fortunefavorstheprepared.com/com-04-landing/ and does not replace them — the instruction, worked examples, and knowledge checks live in the lessons themselves.

ONLINE TRAINING ACCESS

All five lessons, their knowledge checks, and the course certificate are available at the course landing page above. Progress is tracked per browser/device — completing a lesson on one device does not carry over to another.

INSTRUCTOR-LED GROUP TRAINING

MAG and team leads running this course as a group session should pair each lesson with the matching Part I quick-reference page and the Part II worksheet for that lesson, rather than reading the lesson content aloud from this guide — it is reference material, not the instruction itself.

How to Use This Companion Guide

Reminder: this guide is not a standalone course. Support the development and availability of these courses by subscribing to my Patreon.

What this guide contains

- Condensed reference summaries for each lesson (Part I)
- Blank, fillable worksheets for your own net (Part II)
- A glossary, quick-reference card, and doctrinal sources (Part III)

What it does not contain: full instructional text, knowledge-check questions or answers, or scenario solutions. Those live in the online lessons only.

Required Workflow

Follow lessons in order — each builds on the one before it.

1. Complete Lesson 1 online and pass its knowledge checks.
2. Use Part I's matching quick-reference page to review key points.
3. Fill out the matching Part II worksheet for your own net.
4. Repeat for each remaining lesson, in order.
5. Reference Part III's glossary and doctrinal sources any time.

Not a Standalone Course

This guide is reference material only.

It cannot replace the online lessons, which contain the instruction, worked examples, and knowledge checks this course is built around.

Guide Map — What to Reference When

When you need…	Turn to…
A quick recap of a lesson before running a net	Part I, that lesson's Quick Reference
A blank form to define your own net's EMCON conditions	Part II, Worksheet 1
A blank form to draft your ICS-205 EMCON line	Part II, Worksheet 2
A term definition	Part III, Glossary
The SILENCE call scripts or BEADWINDOW EEFI codes	Part III, Quick Reference Card
Where a rule or figure came from	Part III, Doctrinal Sources

PART I — QUICK REFERENCE

Lesson 1 Quick Reference: EMCON Fundamentals

- EMCON protects the fact of transmission; COMSEC protects its content — different disciplines, different courses (COM-03).
- SELDOM UP: Strength, Equipment, Logistics, Disposition, Organization, Movement/Morale, Units, Personalities.
- Threat model this course addresses: DF/RF geolocation (COM-10), traffic analysis (INT-08/INT-16), and ordinary congestion/exposure during incident response.

Lesson 2 Quick Reference: RF Signature Awareness

- Detectability factors: transmit power, antenna gain/directionality, transmission duration, frequency predictability, repeater vs. simplex, automatic digital chatter.
- TRANSEC toolkit: minimum transmission time (≈15–20 sec target), minimum sufficient power, planned frequencies, terrain masking, avoid antenna clustering, non-radiating alternatives where viable.
- Siting trade-off: high/exposed = range, low/masked = signature. Burst transmission: compose fully before keying up, then send complete in one transmission.

Lesson 3 Quick Reference: EMCON Conditions and Postures

- Three conditions: Normal Traffic, Restricted Traffic, Listening Silence — FFTP names the levels; local net control/MAG sets the trigger criteria.
- SILENCE / SILENCE LIFTED call structure (see Quick Reference Card). Only the imposing station, or higher authority, may lift silence.
- BEADWINDOW + EEFI code 04 (Electronic Warfare/EMCON) flags a suspected EMCON-policy disclosure in real time; the only permitted reply is ROGER OUT.

Lesson 4 Quick Reference: Minimal-Signature Operating Procedures

- Scheduled transmission windows (skeds) plus guard rotation, so no single station is a persistent transmitter.
- Burst traffic and brevity applied to an ordinary voice net; siting discipline is an ongoing habit, not a one-time setup choice.
- EMCON requires no cipher or code — disguising content is COM-03's job, governed separately (including FCC encryption prohibitions), not this course's.

Lesson 5 Quick Reference: Integration and Capstone

- Fold EMCON directly into the existing ICS-205 Special Instructions block — one plan, not a separate document.
- A usable EMCON line names the current condition, who declared it, and who is authorized to change it.
- Cross-references for further depth: COM-03 (COMSEC), COM-10 (DF/RF Geolocation), COM-02 (Net Procedures & Prowords), PLN-05 (COMCON).

PART II — WORKSHEETS

Worksheet 1: Define Your Net's EMCON Conditions

Fill in your own net's trigger criteria and authority for each condition. FFTP names the levels; your net sets the specifics.

Condition	Trigger Criteria	Who May Declare	Who May Lift
Normal Traffic			
Restricted Traffic			
Listening Silence			

Worksheet 2: Draft Your ICS-205 EMCON Line

Use this to draft the Special Instructions line before copying it into your actual ICS-205.

Field	Entry
Current Condition	
Declared By (Name/Callsign)	
Date/Time Declared	
Authorized to Lift	
Sked Windows (if Restricted Traffic)	

PART III — APPENDIX

Glossary

EMCON	Emission control; the discipline of deciding whether and how to transmit at all.
TRANSEC	Transmission security; protecting the signal itself from interception and exploitation.
COMSEC	Communications security; the broader discipline including TRANSEC, emission security, physical security, and cryptographic security (content protection, COM-03).
EEFI	Essential Elements of Friendly Information; categories of disclosure a net must guard against.
BEADWINDOW	A proword used to flag a suspected EEFI disclosure in real time, without repeating the sensitive content over the air.
Sked	A scheduled transmission window, used instead of continuous monitoring.
Burst Transmission	Composing a message fully before keying up, then sending it complete in one transmission.
Listening Silence	The heaviest EMCON condition; no transmissions except pre-agreed emergencies, until lifted.

Quick Reference Card

SILENCE Call Scripts

Imposing	ALL STATIONS (3x) — THIS IS (callsign, 3x) — SILENCE, SILENCE, SILENCE — OUT
Lifting	ALL STATIONS (3x) — THIS IS (callsign, 3x) — SILENCE LIFTED (3x) — OUT

BEADWINDOW EEFI Codes (Summary)

01	Position
02	Capabilities
03	Operations
04	Electronic Warfare/EMCON — this course's focus
05	Personnel

06	COMSEC
07	Wrong Circuit

Doctrinal Sources

Source	Publisher	Relevance
CGTTP 6-01.1A, Radiotelephone Handbook	U.S. Coast Guard	BEADWINDOW/EEFI (Lesson 3); SILENCE call structure (Lesson 3, 4)
MCRP 3-40.3B / MCRP 6-22C, Radio Operator's Handbook	U.S. Marine Corps	COMSEC/TRANSEC structure, SELDOM UP (Lesson 1); TRANSEC measures, siting, burst transmission (Lesson 2, 4)
usbrevitycodes.pdf, Multiservice Brevity Codes	Joint (multiservice)	Confirms BEAD WINDOW as a standardized procedure word (Lesson 3, cross-check)

Open Items

Items flagged for resolution before this course's build is considered final:

- EMCON condition-level count (2 vs. 3) not yet confirmed against a finalized one-pager framework table; this guide uses 3 (Normal Traffic / Restricted Traffic / Listening Silence).
- FFTP round logo not yet embedded on the cover — insert the real asset before delivery.
- Companion guide and one-pager PDF media URLs are placeholders pending WordPress upload.