



**Federal Aviation
Administration**

Initial En Route Qualification Training

**Instructor
Handout 00
ERAM SOP
Worksheets 1 – 4**

Course 50148001

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ERAM SOP Worksheet 1

1. For flights in hold, use EDST Hold annotations. Hold annotations must be _____ when aircraft is cleared from holding.
deleted – ERAM SOP, En Route Automation Modernization (ERAM), 4, C, 1.
2. A departure strip is deadwood when the aircraft is _____ and the blocked airspace cancelled (if needed).
radar identified – ERAM SOP, Section I, 6, A.
3. Routing issued to aircraft must be entered in the _____ or _____.
computer verbally coordinated – Section V, 93.
4. Although a track is over the airport, a point-out can only be made once an aircraft is _____ - _____.
radar identified – ERAM SOP, Section IV, 36.
5. Visual separation between an arrival and a departure is a delay if the arrival is not _____.
turning base or nearer – ERAM SOP, Section IV, 64.
6. Students must not point out aircraft unnecessarily when there is assurance by looking at the _____ or reading the _____ that a point out is not required.
radar display route of flight – ERAM SOP, Section V, 61.
7. The student must not suppress the alert or send an amendment until the clearance is actually _____ and _____.
issued acknowledged – ERAM SOP, Section VI, 4.
8. The student should interrupt the briefing only to perform _____.
critical activities – ERAM SOP, Section IV, 136.
9. The following are examples of approved free text abbreviations.
____ = got control ____ = turns ____ = speed ____ = descent
____ = climb ____ = gave control
CTL T S ↓ ↑ RLSD – ERAM SOP, Section II, 14.
10. When a final altitude or routing other than what was requested is issued to an aircraft departing a secondary airport, the flight plan must be _____ prior to track acquisition.
updated – ERAM SOP, Section IV, 37.
11. Students must perform the correct _____ concerning APREQs, Point Outs, and requesting control.
type of coordination – ERAM SOP, Section V, 25.

ERAM SOP Worksheet 1 (continued)

12. List the location identifiers or Facility:

Abilene, TX VOR	ABI	Cincinnati, KY VORTAC	CVG
Addison, TX	KADS	Cincinnati, KY ARPT	KCVG
Albuquerque, NM	KABQ	College Station, TX	KCLL
Alexandria, LA Intl	KAEX	Colliers VORTAC, Colliers, SC	IRQ
Alexandria, LA Esler Field	KESF	Columbia, MO	KCOU
Altus, OK	KLTS	Columbia, SC	KCAE
Amarillo, TX	KAMA	Columbus AFB, MS	KCBM
Andrews AFB, MD	KADW	Corpus Christi, TX	KCRP
Ardmore, OK	KADM	Corsicana, TX ARPT	KCRS
Atlanta, GA	KATL	Crestview, FL VORTAC	CEW
Atlantic City, NJ	KACY	Crimson VORTAC, Tuscaloosa, AL	LDK
Augusta, GA	KAGS	Cunningham VOR, Paducah, KY	CNG
Aurora Muni ARPT, Aurora, IL	KARR	Daisetta VORTAC, TX	DAS
Austin, TX	KAUS	Dallas Fort Worth	KDFW
Baltimore, MD	KBWI	Dallas Love Field, Dallas, TX	KDAL
Barkley Regional, Paducah, KY	KPAH	David Wayne Hooks, TX ARPT	KDWH
Barksdale AFB, Bossier City, LA	KBAD	Dekalb-Peachtree Airport, Atlanta, GA	KPDK
Batesville, AR	KBVX	Denver, CO	KDEN
Baton Rouge, LA	KBTR	Des Moines, IA	KDSM
Beaumont Port Arthur, TX	KBPT	Destin, FL Arpt	KDTS

Answers from LOC ID Handout

ERAM SOP Worksheet 2

1. For flights in hold, use the Hold template to record instructions and then display holding instructions on the _____ for the sector team.
ACL – ERAM SOP, Section IV, 78.
2. The student must advise the _____ immediately after accepting a handoff or point out. **Radar Controller** – ERAM SOP, Section V, 14.
3. _____ an entry on the ACL or DL can be used to indicate the flight requires an action or special attention. **Highlighting** – ERAM SOP, Section II, 4.
4. EDCT, EDC and EFC times must be _____ before they expire.
updated – ERAM SOP, Section IV, 40.
5. Students must complete tasks in the order of highest _____ first.
priority – ERAM SOP, Section IV, 16.
6. Students are required to _____ the use of coordinated airspace when it is no longer needed. **cancel** – ERAM SOP, Section V, 24.
7. Emergencies; The student must coordinate with the appropriate sectors/facilities and inform the Supervisor (including information that the aircraft is also a _____ if appropriate).
destination change – ERAM SOP, Section IV, 121, A.
8. Blank strips may be used to record reroute or other pertinent information before it is updated in the _____. **EDST** – ERAM SOP, Section I, 13.
9. A student can get control of a OM8 arrival as soon as there is a _____ data block on the radar display. **limited** – ERAM SOP, Section V, 43.
10. A total altitude change of more than _____ feet is an error and indicates that a reroute or vector is more appropriate. **4000** – ERAM SOP, Section VI, 19, A.
11. The student must write down all flight information on a _____ when receiving a manually passed flight plan.
blank strip – ERAM SOP, Section I, 11.
12. Students are _____ to adhere to flow control procedures and TMU reroutes.
required – ERAM SOP, Section IV, 15.

ERAM SOP Worksheet 2 (continued)

13. List the location identifiers or Facility:

Belcher VORTAC, Shreveport, LA	EIC	Detroit Wayne County Airport, MI	KDTW
Bellaire, OH VOR	AIR	Dulles Airport, Washington, DC	KIAD
Bessemer, AL	KEYY	Dyersburg, TN	KDYR
Bigbee VORTAC, MS	IGB	Eaton VOR, Hattiesburg, MS	LBY
Birmingham, AL	KBHM	El Dorado, AR	ELD
Blytheville, AR	KBYH	Elm Grove VORTAC, Shreveport, LA	EMG
Boiler VOR, IN	BVT	Evansville, IN	KEVV
Bonham, TX VORTAC	BYP	Farmington Regional Airport, MO	KFAM
Bowling Green, KY	KBWG	Fayette County, TN	KFYE
Bradford VORTAC, Bradford, IL	BDF	Flowers Field ARPT, Thomaston, AL	3AL7
Brickyard VOR, IN	VHP	Foristell VORTAC, Foristell, MO	FTZ
Brookwood VORTAC, Brookwood, AL	OKW	Forrest City, AR ARPT	KFCY
Bunkie, LA NDB	BWK	Fort Campbell, Hopkinsville, KY	KHOP
Byerley Airport, LA	0M8	Fort Polk, LA	KPOE
Callender Field, New Orleans, LA	KNBG	Fort Smith, AR	KFSM
Cape Girardeau, MO	KCGI	Fulton County Airport, Atlanta, GA	KFTY
Cedar Creek VORTAC, TX	CQY	Galveston, TX	KGLS
Charlotte, NC	KCLT	Garden City VORTAC, Garden City, KS	GCK
Chattanooga, TN	KCHA	George Bush Intercontinental, Houston, TX	KIAH
Chicago O'Hare, Chicago, IL	KORD	Golden Triangle, MS ARPT	KGTR

Answers from LOC ID Handout

ERAM SOP Worksheet 3

1. Communication is extremely important to an effective radar team. When not using the communication system to perform other required duties, students are required to monitor frequencies, to actively listen, and to process information and requests.

A. If the student asks the R-side to repeat/confirm information _____ or more times during a scenario an error has occurred.
three – ERAM SOP, Section VII, 1, A.
2. The student is responsible for board management including the removal of _____.
deadwood - ERAM SOP, Section I, 7.
3. Aircraft inbound to KSTF, KTUP, KGTR, KCBM, and KUBS that are in conflict with the MEI 1 West MOA/ATCAA must be routed around the _____ side of the restricted area.
northern – ERAM SOP, Section IV, 11.
4. Students _____ perform duties in order of their importance.
must – ERAM SOP, Section IV, 116.
5. A departure clearance resulting in a loss of separation is effective upon _____ of the call.
termination – ERAM SOP, Section VI, 5, D.
6. Student must not set up the EDST until the briefing is complete and any _____ items are addressed.
higher priority – ERAM SOP, Section III, 4, C.
7. Students must enter a Remove Strip (RS) message after the receipt of an _____ or the _____ and all coordination has been accomplished for aircraft landing at KVKS, KGWO and OM8.
arrival time, cancellation of IFR – ERAM SOP, Section IV, 86.
8. The strip must be placed in the _____ prior to issuing the clearance.
active bay – ERAM SOP, Section I, 3.
9. When a student approves an altitude change that allows an aircraft to climb or descend into the sector, the student must update the _____ and advise the Radar Controller.
data block – ERAM SOP, Section IV, 5.
10. The student is _____ for changing and issuing the correct assigned altitude for OM8, KVKS, and KGWO departures requesting FL180 when it is unusable and requested.
responsible – ERAM SOP, Section IV, 108.
11. Students must complete point outs at a reasonable distance (not more than _____ miles from the point where an aircraft will conflict with the next sector's protected airspace).
25 – ERAM SOP, Section V, 58.

ERAM SOP Worksheet 3 (continued)

12. List the location identifiers or Facility:

Graham VORTAC, Centerville, TN	GHM	Lambert Field, St. Louis, MO	KSTL
Green County, MS	KGCV	Las Vegas, NV	KLAS
Greensboro, NC	KGSO	Laurel, MS ARPT	KLUL
Greenville, AL	KPRN	Laurel, MS NDB	THJ
Greenville, MS	KGLH	Liberal, KS VOR	LBL
Greenwood VORTAC, Greenwood, SC	GRD	Lincoln, NE ARPT	KLNK
Greenwood, MS	KGWO	Little Rock AFB, Little Rock, AR	KLRF
Gregg County VORTAC, East Texas Regional ARPT	GGG/KGGG	Little Rock, AR	KLIT
Grenada, MS	KGNF	Los Angeles, CA	KLAX
Grissom AFB, Peru, IN	KGUS	Louis Armstrong, New Orleans, LA	KMSY
Gulf Port, MS	KGPT	Louisville International Airport, Louisville, KY	KSDF
Hammond, LA	KHMU	Lowndes County Airport, Columbus, MS	KUBS
Hattiesburg, MS	KHBG	Lufkin, TX	KLFK
Hattiesburg/Laurel Regional Airport, MS	KPIB	Marengo NDB, Demopolis, AL	RZO
Hawkins Field, Jackson, MS	KHKS	Magnolia VORTAC, MS	MHZ
Hodge NBD, Jonesboro, LA	JBL	Magnolia, AR	KAGO
Hohenwald NDB, Hohenwald, TN	JHG	Marvell VOR, Helena, AR	UJM
Holly Springs Airport, MS	M41	McComb, MS	KMCB
Holly Springs VORTAC, MS	HLI	McGhee-Tyson Airport, Knoxville, TN	KTYS
Hot Springs, AR	KHOT	McGuire AFB, Wrightstown, NJ	KWRI

Answers from LOC ID Handout

ERAM SOP Worksheet 4

1. Grayed-out entries in the ACL must be _____ only when aircraft are no longer on frequency. Do not use the “clean up” button.
Deleted – ERAM SOP, Section II, 6.
2. Students must negotiate an altitude with the R-side concerning arrival aircraft before releasing/clearing a departure from the same airport if:
The arrival is _____ or less from the NAVAID serving the airport and Sector 66 has control of the aircraft. **8 minutes** – ERAM SOP, Section IV, 30.
3. The student must promptly inform the Supervisor of any event which has a significant impact to the _____ of the sector.
operation – ERAM SOP, Section V, 17.
4. IAFDOF color coding must only be _____ once coordination has been accomplished or the student determines the LOA altitude overrides the IAFDOF.
deleted – ERAM SOP, Section IV, 96.
5. It is the _____ of the student to perform all point outs to the correct sector using the correct format and phraseology. The Data block is to be “sent” and then the sector is called. A point out is complete when the words “_____” have been received.
responsibility, point out approved – ERAM SOP, Section V, 50.
6. Multiple departures from different secondary airports whose lateral airspace overlaps, at any point, must be separated using _____ separation.
vertical – ERAM SOP, Section VI, 41.
7. After a missed approach, _____ must be written under the approach name.
MA – ERAM SOP, Section I, 15.
8. Students must start a _____ using the _____ on KVKS and 0M8 departures after the clearance has been issued and enter the (interim) altitude issued to the aircraft. **track, call sign** – ERAM SOP, Section IV, 26.
9. The student must answer _____ when there is no other higher priority duty (the sequential display or checking of route lines on the GPD is not a high priority duty).
landlines – ERAM SOP, Section IV, 116, B, note.

ERAM SOP Worksheet 4 (continued)

10. When relaying information; Students must convey the exact _____ to the R-side, next controller and/or supervisor.
message – ERAM SOP, Section V, 21.

11. List the location identifiers or Facility:

Omaha, NE	KOMA	Sioux Falls, SD	KFSD
Orlando Executive, Orlando, FL	KORL	Spartanburg, SC ARPT/VORTAC	SPA
Orlando International (McCoy), Orlando, FL	KMCO	Spirit of St. Louis Airport, St. Louis, MO	KSUS
Oxford, MS	KUOX	Springfield, MO	KSGF
Palestine, TX ARPT	KPSN	Starkville, MS	KSTF
Palm Springs International, Palm Springs, CA	KPSP	Sterling, CO ARPT	KSTK
Panama City, FL	KPFN	Stuttgart, AR	KSGT
Patrick AFB, Cocoa Beach, FL	KCOF	Sugar Land Airport, Houston, TX	KSGR
Pearl River ARPT, Poplarville, MS	M13	Tallahassee, FL	KTLH
Pell City, AL	KPLR	Tampa International Airport, Tampa, FL,	KTPA
Pensacola Gulf Coast Airport, Pensacola, FL	KPNS	Texarkana, AR	KTXK
Philadelphia International, Philadelphia, PA	KPHL	Tinker AFB, Oklahoma City, OK	KTIK
Phoenix, AZ	KPHX	Tulsa, OK	KTUL
Picayune Airport, MS	KMJD	Tupelo, MS Regional ARPT	KTUP
Picayune, MS VOR/DME	PCU	Tupelo, MS VOR/DME	OTB
Pine Bluff, AR	KPBF	Tuscaloosa, AL ARPT	KTCL
Pittsburgh International, Pittsburgh, PA	KPIT	Twenty Nine Palms, CA VOR	TNP
Pocket City VORTAC, Evansville, IN	PXV	Tyler, TX	KTYR
Polk VORTAC, Fort Polk, LA	FXU	Union City, TN	KUCY
Portland International, Portland, OR	KPDX	Vicksburg, MS	KVKS

Answers from LOC ID Handout