

**ENGINEER SENIOR LEADER COURSE
SYLLABUS FOR 12Y40
CONSTRUCTION EQUIPMENT SUPERVISOR**

I. INTRODUCTION

The 12Y SLC course is a 7 week USAES course taught at the Maneuver Support Center of Excellence NCO Academy. It employs classroom instruction using the Small Group process technique and Small Group Instruction (SGI) with practical applications, performance evaluations, and testing.

II. LEARNING OUTCOMES

Upon successful completion of this course, students will be able to do the following:

- A. Recognize and employ next echelon duties
- B. Recognize the NGA Officer Training Course standard and Employ it accordingly
- C. Employ the new hardware and Software
- D. Edit and Manage Geospatial data
- E. Examine the Management of the Defense Geodatabase
- F. Implement 3D Tactical Decision Aids into the Military Decision Making Process
- G. Apply lessons learned to a historical perspective.

III. INSTRUCTIONAL MATERIALS

The instructional materials identified for this course will be viewable through blackboard once access has been granted.

IV. COURSE REQUIREMENTS

- A. Reading Assignments:
Reading assignments will be given frequently. The material is to be carefully studied in preparation for class discussion.
- B. Papers:
Several essays will be written during the course using The American Psychological Association (APA) format. Subjects will be assigned by the instructor.

V. EXAMINATIONS

An examination will be given upon completion of following Terminal Learning Objectives:

A. EXAMINATIONS PENDING

VI. PERFORMANCE ORIENTED ASSESSMENTS (POAs)

All POAs identified for this course will be viewable through blackboard, once access has been granted.

Students will be evaluated on the following POAs:

- A. Leadership In A Garrison Environment
- B. In-Ranks Inspection
- C. American Psychological Association (APA) Written Communication
- D. Student Led Discussion
- E. Formal Memorandum
- F. Contribution To Group Work
- G. Army Physical Readiness Training

VII. NOTES AND ADDITIONAL INSTRUCTIONS FROM COURSE INSTRUCTOR

- A. Students will be participating in a Warfighting Exercise. This exercise will require students to understand and apply the Military Decision Making Process (MDMP). It is also recommended to students know how to operate Command Post of the Future (CPOF).
- B. Cellular phones and other Electronic Devices will be turned off while the student is in the classroom.

VIII. COURSE OUTLINE

Geospatial Engineer 12Y40 (7 Weeks)

1 2 3 4 5

Counter Improvised Explosive Device (CIED) Training

(33 hours)

- Manage CREW Systems
- Establish the Common Operational Picture
- Plan Unit Movement at Company Level
- Plan for the Integration of CIED Assets in COIN Environment
- Respond to an Improvised Explosive Device at the Company Level
- Apply Pattern Analysis Products to Support CIED Operations
- Apply Predictive Analysis Products to Support CIED Operations

Mandatory Training

(21.0 hours)

- Military History
- Ethical Reasoning
- COE Lessons Learned
- AR 350-1 Training
 - SHARP
 - MRT
 - ASAP

Technical Training

(126 hours)

- Senior NCO Professional Development
- Geospatial Intelligence for the Staff Officer
- DCGS-A Hardware and Software Training
- Data Production and Editing
- Production Line Toolset
- 3D Visualization Using TerraExplorer Suite Software
- Military History

Situational Training

Exercise

(72 hours)

- Situational Training Exercise

Course trains senior engineer noncommissioned officers capable of supervising the evaluation of source materials for military geographic information analysis, quality assurance during all stages of topographic operations, printing of hardcopy geospatial information, ensuring required administrative, intelligence, source data and reference files are maintained and advises command and staff officers on all aspects of Geospatial operations and doctrine.