

# Common to all Engineer Senior Leader Courses

- Army Physical Fitness Test / Height and Weight
- Write a paper (APA format)
- Write a memorandum
- Physical Readiness Training and Physical Readiness Training Plan (Evaluation)
- Garrison Leadership (Evaluation)
- Contribution to Group Work (Evaluation)
- Conduct In-Ranks Inspection (Evaluation)
- Conduct Lessons Learned Brief (Evaluation)\
- Community Service Project
- Social Events

# Combat Engineer 12B/C40 (8 Weeks)

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## General Engineering

(8 hours)

- Advise Supported Commander of Engineer Capabilities
- Plan the Employment of Mine Delivery Systems

## Combat Engineering

(19 hours)

- Supervise Engineer Demolition Mission Planning
- Determine Logistical Requirements for Non-Explosive Anti-Vehicular Obstacle
- Determine Logistical Requirements for Bunkers and Shelters
- Supervise Engineer Support to Engagement Area Development
- General Engineering Examination

## Military Load Class

(19 hours)

- Determine the Rapid Field Classification of a Fixed Bridge
- Complete Military Load Classification Examination

## Fixed Bridging

(26 hours)

- Determine Bailey Bridge Logistical Requirements
- Inspect Fixed Bridge Maintenance
- Overview of the Mabey Logistical Support Bridge
- Design a Mabey Logistical Support Bridge
- Supervise Construction of a Mabey Logistical Support Bridge
- Fixed Bridge Examination

## Float Bridging

(12.5 hours)

- Plan the Construction of an Improved Ribbon Bridge
- Plan the Construction of an Improved Ribbon Raft
- Determine Float Bridge Anchorage System Requirements
- Float Bridging Examination

## Tactics

(68 hours)

- Employ Military Graphics and Overlays
- Conduct Contemporary Operational Environment Analysis
- Determine Unit of Action Capabilities
- Produce Plans, orders and Annexes
- Obtain Combat Service Support
- Conduct Route Sweep/Clearance Operations
- Plan River Crossing Operations
- Provide Engineer Support to Offensive Operations
- Conduct an Offensive Operations (JANUS)
- Tactics Examination

## Battle Command Systems

(48 hours)

- Employ Terrain Visualization Software Falcon View
- Army Battle Command System Overview v6.4
- Conduct Maneuver Control System – Light (MCS-L) Operations
- Prepare a Message Using a Mail Application
- Operate the Net Meeting Application
- Develop a Unit Task Organization (UTO) and Enemy Order of Battle (OB)
- Perform Mapping Operations
- Perform Overlay Management
- Conduct Planning Operations
- End of Training Evaluation for MCS Workstation

## Combined Arms

(73 hours)

- Equipment Draw
- Situational Training Exercise
- Redeployment/Refit to Fight

## Mandatory Training

(21 hours)

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

**Course trains senior noncommissioned officers capable of training, supervising and managing engineer platoons in operations involving assured mobility, counter mobility, and survivability on the modern battlefield.**

# Construction Engineer Supervisor 12H40 (6 Weeks, 1 Day)

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## Mandatory Training

(21.0 hours)

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

## Common Engineer Training (CET)

(33.5 hours)

- Determine Logistical Requirements for Bunkers and Shelters
- Engineering Exam
- Supervise Engineer Demolition Mission Planning
- Determine Logistical Requirements for Non-Explosive Anti-Vehicular Obstacles
- Calculate the Rapid Classification of a Fixed Bridge
- Military Load Classification Examination

## Vertical Construction Operations

(61 hours)

- Manage a Construction Project
- Design a Utilities Job Plan
- Manage a Construction Project Examination
- Design a Utilities Job Plan Examination

## Situational Training

Exercise

(72 hours)

- Situational Training Exercise

**Course trains senior engineer noncommissioned officers capable of incorporate shared engineer and vertical construction training which supports current missions.**

U.S. ARMY

# Senior Horizontal Construction Supervisor 12N40 (5 Weeks, 1 Day)

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## Common Engineer

(33.0 hours)

- Calculate the Rapid Calculation of a Fixed Bridge
- Manage CREW Systems
- Establish the Common Operational Picture
- Plan Unit Movement at Company Level
- Plan for the Integration of CIED Assets in a COIN Environment
- Respond to an Improvised Explosive Device at the Company Level
- Apply Pattern Analysis Products to Support CIED Operations
- Apply Predictive Analysis to Support CIED Operations
- Calculate the Rapid Classification of a Fixed Bridge
- Military Load Classification Examination

## MOS Specific Training

(83.0 hours)

- Manage a Horizontal Construction Project
- Resource Constrain a Project
- Resource Constrain a Project Examination
- Digital Training Phase 1 (CPOF)
- Digital Training Phase 2 (MDMP)

## Situational Training

### Exercise

(72 hours)

- Situational Training Exercise

## Mandatory Training

(21.0 hours)

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

**Course trains senior engineer noncommissioned officers capable of battle analysis, ethical decision making, common leader, common engineer, and horizontal construction skills training which supports engineer construction on the modern battlefield.**

U.S. ARMY

# Technical Engineer Supervisor 12T40 (5 Weeks, 2 Days)

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## 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

(93 hours)

- Prepare Design Specifications for Construction Projects (16.2)
- Prepare Design Specifications Proposals for a Horizontal Construction Print
- Plan Airfield/Heliport Obstruction Chart and Navigational-Aid (NavAid) Survey
- Design Road and Airfield Pavement Structures Using California Bearing Ratio (CBR) Data
- Check a Project Progress Report
- Approve Field Operations Plans
- Quality Assurance and Quality Control Program
- Write and Develop a Scope of Work for a Construction Project
- Determine Soil Stabilization Methods Examination
- Design Road and Airfield Pavement Structures Examination
- Review Tech Advancements and Capabilities Examination
- MS Project Examination
- Artillery / Air Defense / Hydrographic Survey Examination

## Situational Training Exercise

(72 hours)

- Situational Training Exercise

**Course trains senior engineer noncommissioned officers capable of battle analysis, ethical decision making, common leader, common engineer, and horizontal construction skills training which supports engineer construction on the modern battlefield.**

# Geospatial Engineer 12Y40 (7 Weeks)

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## 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.**