



TRAINING MANUAL

EMERGENCY

ENGINEERING

11/2023

OUR OATH: I do solemnly swear (or affirm) that I will support and defend the Constitution of the United States of America against all enemies, foreign and domestic, that I will bear true faith and allegiance to the same, and that I take this obligation freely, without any mental reservation or purpose of evasion, pledging my life, my fortune, and my sacred honor. So help me, God.



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INDIVIDUAL AND COMMUNITY PREPAREDNESS



EMERGENCY ENGINEERING

INDIVIDUAL AND COMMUNITY PREPAREDNESS



Engineering Level II Skills

1. Operate Woodworking Power and Hand Tools
2. Operate Metalworking Power and Hand Tools (this includes basic welding)
3. Operate Earthmoving hand tools
4. Operate a small watercraft, powered and unpowered
5. Construct a personal / team fighting position
6. Construct a fence using supplied or indigenous materials
7. Construct human obstacles
8. Clear human obstacles
9. Construct vehicular obstacles
10. Clear vehicular obstacles
11. Construct field latrines/sanitation facilities
12. Construct semi-permanent field housing facilities
13. Construct heating apparatus for field housing facilities
14. Can render a bridge or overpass unusable by vehicles
15. Can rig a hasty bridge for infantry use
16. Effectively read a map and utilize it to locate offensive or defensive structures in advantageous positions
17. Operate a generator
18. Operate a water purification setup
19. Install steel reinforcing on a vehicle
20. Construct hasty ballistic protection

INDIVIDUAL AND COMMUNITY PREPAREDNESS



Engineering Level III Skills

1. Lead a squad-sized engineering team
2. Design structures to fit needs made from available materials
3. Advanced Metalworking skills
4. Basic Chemistry skills
5. Operate earthmoving heavy equipment
6. Reload ammunition given appropriate equipment and materials
7. Perform basic maintenance/upgrade/repair activities on small arms
8. Design defenses for fixed strongpoints
9. Design ballistic defenses using available materials for individuals and vehicles
10. Design systems for field sanitation
11. Repair sanitation systems
12. Design systems for water purification
13. Repair water purification systems
14. Design power generation and distribution systems
15. Repair power generation and distribution systems
16. Design semi-permanent bridging structures for infantry or vehicle use using available materials
17. Supervise the construction of larger permanent or semi-permanent structures or complexes
18. Maintain up-to-date geographic information for expected operational areas
19. Design area-denial and movement-denial systems for designated areas
20. Consult effectively with other CPT Team specialties

INDIVIDUAL AND COMMUNITY PREPAREDNESS