

ART 4.5 Provide General Engineering Support

General engineering is the engineer discipline that is focused on affecting terrain while not in close support to maneuver forces. Tasks most frequently performed under general engineering conditions include the construction, repair, maintenance, and operation of infrastructure, facilities, lines of communications, and bases; protection of natural and cultural resources; modification and repair of terrain; selected explosive hazards activities; and environmental activities. (FM 3-34) (USAES)

NO.	Scale	Measure
01	Yes/No	Quantity or quality of general engineering support in the area of operations (AO) did not degrade or delay unit operations.
02	Yes/No	Environmental considerations planning and procedures were present and being followed.
03	Time	To assess and repair airfields for aviation operations throughout the AO.
04	Time	To construct and restore damaged utilities in AO.
05	Time	To refine general engineering support program for AO after receipt of warning order.
06	Time	To identify and marshal forces, equipment, and materials to construct or repair facilities in the AO.
07	Time	To construct or repair damaged lines of communications in AO to include aerial ports of debarkation and seaports of debarkation.
08	Time	Between arrival of building supplies and equipment and construction of sustainment facilities.
09	Time	To complete construction of sustaining base facilities in the AO.
10	Time	To begin building facilities (after final project approval and authorization).
11	Time	To have those bases identified in operation plan or operations order.
12	Time	To validate asset requests.
13	Time	To have assets at requesting location.
14	Percent	Of preventative maintenance activities completed based on the recommended activities from each systems

		owner's manual or generally accepted maintenance standards such as ASHRAE (American Society of Heating, Refrigerating, and Air Conditioning Engineers).
15	Percent	Of difference between planned general engineering support requirements and actual requirements in AO.
16	Percent	Of planned general engineering capability performed in AO.
17	Percent	Of supplies protected from the elements by weatherproof covers.
18	Percent	Of maintenance facilities protected from the elements.
19	Percent	Of overall cargo and equipment deliveries accommodated by sustaining base.
20	Percent	Of required installation throughput capacity available at execution.
21	Percent	Of tasks correctly assigned (correct engineers, location, and time).
22	Percent	Of general engineering support provided by host nation.
23	Number	In square meters of temporary facilities emplaced or constructed per day.
24	Number	In square meters of permanent facilities emplaced or constructed per day.

Supporting Collective Tasks:

Task No.	Title	Proponent	Echelon
05-3-5114	Conduct Construction Drainage Operations	05 - Engineers (Collective)	Platoon
05-3-5116	Conduct Excavation Operations	05 - Engineers (Collective)	Platoon
05-3-5117	Conduct Grading Operations	05 - Engineers (Collective)	Platoon
05-3-5136	Excavate With Explosives	05 - Engineers (Collective)	Platoon
05-3-5144	Perform Dump Truck-Hauling Operations	05 - Engineers (Collective)	Platoon
05-3-5703	Perform Electrical Safety Systems Testing and Maintenance	05 - Engineers (Collective)	Platoon
05-3-	Perform Project Management	05 - Engineers	Platoon

5706		(Collective)	
05-6-0096	Plan General Engineer Operations	05 - Engineers (Collective)	Brigade
63-7-2621	Coordinate Engineer Sustainment Activities	63 - Multifunctional Logistics (Collective)	Division (TOE)
63-9-2420	Coordinate Engineering and Construction Support (Brigade-Echelons Above Corps)	63 - Multifunctional Logistics (Collective)	Echelons Above Corps