

## ART 4.5.1 Develop Infrastructure

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)

<b>NO.</b>	<b>Scale</b>	<b>Measure</b>
01	Yes/No	Restoration completed per the schedule the operation order specifies.
02	Yes/No	Commander of the unit restoring a damaged area planned operations, established priorities, and allocated assets.
03	Yes/No	Restoration was per the standards the operation order specifies.
04	Yes/No	Environmental considerations planning and procedures were present and being followed.
05	Time	To locate and stockpile repair materials.
06	Time	To refine area damage control plan for AO after receipt of warning order.
07	Time	To establish communications between the unit restoring the damaged areas and the unit or organization controlling the AO where the area to be restored is located.
08	Time	To perform engineer estimate to identify and prioritize potential tasks and determine required specialized support from engineers, EOD, and other units; bill for needed materials; locate routes; identify replacement facilities; identify available host-nation assets; and perform other tasks as appropriate.
09	Time	To construct an expedient or alternate facility or bypass while restoration or repair is being competed if required.
10	Time	To repair facilities damaged by combat or natural disaster.
11	Time	To restore damaged utilities in AO.

12	Percent	Difference between planned area damage control requirements and actual requirements in AO.
13	Percent	Of planned general engineering capability performed in AO.
14	Percent	Of facilities damaged beyond repair.
15	Percent	Of operations in AO degraded, delayed, or modified due to combat or natural disaster damage.
16	Percent	Of general restoration support provided by host nation.
17	Percent	Of restoration effort completed.
18	Number	Of Soldiers and civilians impacted by combat or natural disaster in the AO.
19	Number	And type of facilities damaged by combat or natural disaster in the AO.

### Supporting Collective Tasks:

Task No.	Title	Proponent	Echelon
05-1-0029	Develop and Implement an Area Damage Control (ADC) Plan	05 - Engineers (Collective)	Battalion
05-1-0031	Control Area Damage Control (ADC) Operations	05 - Engineers (Collective)	Battalion
05-1-0732	Prepare an Air Base Damage Repair Estimate	05 - Engineers (Collective)	Battalion
05-2-0037	Conduct Air Base Damage Repair (ADR) Operations	05 - Engineers (Collective)	Company
05-2-0702	Repair Airfields	05 - Engineers (Collective)	Company
05-2-0735	Conduct Area Damage Control (ADC) Operations	05 - Engineers (Collective)	Company
05-3-5001	Perform an Initial Infrastructure Assessment	05 - Engineers (Collective)	Platoon
05-3-5211	Construct a Water Distribution System	05 - Engineers (Collective)	Platoon
05-6-0029	Develop an Area Damage Control (ADC) Plan	05 - Engineers (Collective)	Brigade
05-6-0714	Plan an Infrastructure Reconnaissance	05 - Engineers (Collective)	Brigade
63-6-	Direct Area Damage Control	63 -	Brigade

4050	Operations	Multifunctional Logistics (Collective)	
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