

ART 2.2.1.5 Conduct Geospatial Engineering Operations and Functions

Geospatial engineer operations include functions of terrain analysis, data collection, data generation, database management, data manipulation and exploitation, cartographic production and reproductions, and geodetic survey. Geospatial engineering operations focus on data generation, data management, terrain analysis, and the presentation of their results to the commander. The functions are all interdependent so to prepare a geospatially accurate and timely enabled common operational picture for the commander. (FM 3-34.230) (USAES)

Note: ART 5.3.3 (Facilitate Situational Understanding Through Knowledge Management) includes the processing of sensor data, the interpretation of data into intelligent information, fusion and integration of separate source data, management of the data to include accuracy and data topology, and dissemination of tactical data information. The inclusion of this task does not change the steps of the intelligence preparation of the battlefield process described in FM 2-01.3.

NO.	Scale	Measure
01	Yes/No	The availability of accurate geospatial products allowed the commander to deploy and employ the weapon systems effectively.
02	Yes/No	The availability of accurate geospatial products allowed supported commanders and staffs to visualize their areas of operations, interest, and influence.
03	Yes/No	The availability of accurate geospatial products allowed supported commanders and staffs to target enemy systems effectively.
04	Yes/No	The availability of accurate geospatial products allowed supported commanders and staffs to plan air and ground missions efficiently.
05	Yes/No	The availability of accurate geospatial products allowed supported commanders and staffs to counter enemy weapons and intelligence-collection capabilities.
06	Yes/No	The availability of accurate geospatial products supported the commander's and staff's plans to avoid

		areas.
07	Time	To complete terrain analysis of an area of operations and prepare products supporting intelligence preparation of the battlefield.
08	Time	To complete geodetic survey in the area of operations.
09	Time	To produce and reproduce geospatial information in sufficient quantities to meet supported unit demand.
10	Number	And types of engineer topographic elements available to support unit operations.

Supporting Collective Tasks:

Task No.	Title	Proponent	Echelon
05-1-6000	Identify Geospatial Support Requirements	05 - Engineers (Collective)	Battalion
05-1-6001	Request a Standard Geospatial Product	05 - Engineers (Collective)	Battalion
05-1-6002	Request Nonstandard Geospatial Products	05 - Engineers (Collective)	Battalion
05-2-6002	Manage a Geospatial Database	05 - Engineers (Collective)	Company
05-2-6007	Identify Terrain Information Requirements	05 - Engineers (Collective)	Company
05-3-6000	Collect Geospatial Information	05 - Engineers (Collective)	Platoon
05-3-6001	Generate Geospatial Data	05 - Engineers (Collective)	Platoon
05-3-6003	Provide Geospatial Information	05 - Engineers (Collective)	Platoon
05-3-	Produce Geospatial Products	05 -	Platoon

6004		Engineers (Collective)	
05-3-6005	Provide Geospatial Analysis and Intelligence	05 - Engineers (Collective)	Platoon
05-6-0088	Coordinate Geospatial Operations	05 - Engineers (Collective)	Brigade
34-6-4000	Integrate JOA Intelligence, Surveillance, and Reconnaissance (ISR) with CBRNE Situation	34 - Combat Electronic Warfare and Intelligence (Collective)	Brigade