

Individual Critical Task List

12T10, Technical Engineer Specialist, Skill Level 1
Enlisted, MOS: 12T, Skill Level: SL1, Duty Pos: KIR

Approved
09 May 2014

Effective Date: 07 Oct 2013

Distribution Restriction: Approved for public release; distribution is unlimited.

Destruction Notice: None

Foreign Disclosure: This product/publication has been reviewed by the product developers in coordination with the Fort Leonard Wood, MO/MSCoE foreign disclosure authority. This product is releasable to students from all requesting foreign countries without restrictions.

Target Audience: This ICTL is associated with Technical Engineers serving in skill level one positions.

Total Number of Tasks: 64

Task Number	Task Title	Training Domain / Location	Sust Tng Freq	Sust Tng Sl
052-12T-1235	Prepare a Floor Plan Drawing	INST	QT	1-4
052-12T-1236	Prepare a Foundation Drawing	INST	QT	1-4
052-12T-1237	Prepare a Building Elevation Drawing	INST	AN	1-4
052-12T-1239	Prepare a Sectional-View Drawing	INST	QT	1-4
052-12T-1240	Prepare a Detail Drawing	INST	QT	1-4
052-12T-1241	Prepare a Utility/Plan Drawing	INST	SA	1-4
052-12T-1248	Perform a Traverse Survey	INST	QT	1-4
052-12T-1303	Perform Differential Leveling	INST	QT	1-4
052-12T-1512	Establish Temporary Control Points	INST	QT	1-4
052-12T-1548	Record Level Data	INST	QT	1-4
052-12T-1549	Check Field Notes and Abstracts for Errors	INST	QT	1-4
052-12T-1553	Check Level Data	INST	QT	1-4
052-12T-1603	Perform as a Rodman During Leveling Observations	INST	QT	1-4
052-243-1250	Determine Grain Size Distribution by Hydrometer Analysis	INST	SA	1-4
052-243-1251	Determine the Plasticity Index of a Soil	INST	QT	1-4
052-243-1252	Determine Laboratory Compaction Characteristics of a Soil	INST	SA	1-4
052-243-1253	Determine the In-Place Soil Density by Sand Cone Method	INST	SA	1-4
052-243-1254	Determine the In-Place Soil Density and Moisture Content by the Nuclear Method	INST	SA	1-4
052-243-1302	Modify a Standard Army Facilities Component System (AFCS) Drawing	OP	SA	1-4
052-243-1304	Install Construction Survey Stakes and Markers	INST	QT	1-4
052-243-1305	Determine the Grain Size Distribution and Gradation by Mechanical Analysis	INST	SA	1-4
052-243-1306	Conduct a Surface Moisture Test on Aggregate	INST	AN	1-4
052-243-1451	Cast a Concrete Cylinder	INST	AN	1-4
052-243-1452	Cast a Concrete Beam	INST	AN	1-4
052-243-1500	Determine the Moisture Content of a Soil	INST	AN	1-4
052-243-1502	Obtain a Representative Soil Sample	INST	SA	1-4
052-243-1503	Determine the Specific Gravity of a Soil	INST	SA	1-4
052-243-1506	Classify a Soil Using the Unified Soil Classification System (USCS)	INST	QT	1-4
052-243-1513	Perform Layout of a Construction Project	INST	QT	1-4
052-243-1515	Conduct a Soils Exploration	INST	QT	1-4
052-243-1516	Develop a Soil Profile	INST	QT	1-4
052-243-1517	Produce Compaction Specification Block	INST	QT	1-4
052-243-1519	Determine the Compressive Strength of Concrete	INST	QT	1-4
052-243-1520	Determine the Flexural Strength of Concrete	INST	QT	1-4
052-243-1521	Conduct a Wipe Test on a Nuclear Moisture-and-Density Tester	INST	SA	1-4
052-243-1532	Prepare Preliminary Drafting Sketches	INST	QT	1-4
052-243-1533	Determine California Bearing Ratio (CBR) of a Soil	INST	SA	1-4
052-243-1534	Determine the In-Place California Bearing Ratio (CBR) of a Soil by Dual Cone Penetrometer Method (DCP)	INST	QT	1-4
052-243-1535	Identify Unknown Bituminous Material	OP	QT	1-4
052-243-1536	Conduct a Non-Destructive Strength Test on Concrete	OP	QT	1-4
052-243-1537	Determine the Air Content and Unit Weight of Plastic Concrete	INST	AN	1-4
052-243-1538	Perform a Slump/Spread Test	INST	SA	1-4

052-243-1539	Perform Static Survey with Differential Global Positioning System (DGPS)	INST	QT	1-4
052-243-1540	Perform Real Time Kinematic (RTK) Survey with Differential Global Positioning System (DGPS)	INST	QT	1-4
052-243-1541	Produce Civil Engineering Drawings	INST	QT	1-4
052-243-1542	Determine Level Error "C"	INST	QT	1-4
052-243-1543	Set Up a Target Set	INST	AN	1-4
052-243-1545	Perform Operator Maintenance on Survey Equipment	INST	QT	1-4
052-243-1546	Operate the Automated Integrated Surveying Instrument (AISI)	INST	QT	1-4
052-243-1547	Describe the Location of a Survey Control Station	INST	QT	1-4
052-243-1550	Perform an Intersection with a Total Station	INST	QT	1-4
052-243-1551	Compute a Differential Level Line	INST	QT	1-4
052-243-1552	Collect Site Information for Differential Global Positioning System (DGPS) Planning	INST	QT	1-4
052-243-1554	Download Data from Differential Global Positioning System (DGPS) Receiver	INST	QT	1-4
052-243-1555	Process Differential Global Positioning System (DGPS) Data	INST	QT	1-4
052-243-1556	Conduct an Airfield/Heliport Obstruction Chart and Navigational-Aid (NavAid) Survey	INST	QT	1-4
052-243-1557	Convert Coordinates	INST	QT	1-4
052-243-1559	Emplace a Permanent Survey Control Point	INST	AN	1-4
052-243-1560	Locate Survey Control Stations	INST	QT	1-4
052-243-1561	Perform a Post Processed Kinematic (PPK) Survey	INST	QT	1-4
052-243-1562	Prepare a Site Plan for General Construction	INST	QT	1-4
052-243-1601	Perform a Preliminary Site Survey (Topographic/Radial Survey) with a Total Station Survey Instrument	INST	QT	1-4
052-243-1602	Perform a Preliminary Site Survey (Topographic/Radial Survey) with a Total Station and Survey Controller	INST	QT	1-4
052-243-1604	Perform as a Rodman During Conventional Surveying Observations	INST	QT	1-4