

Group Level	Skill Number	Skill	Complement Per Office	Prerequisites	Duties	Rank	Training	Measurements
All Core	3LS1	Level 3 CADD (CoGo & Computations)	All	2LS9	CoGo Applications/Computations	3	Level I & II CADD - Microstation Applications as a prerequisite. These applications include CoGo, D&C Manager, Shapes, Criteria, Reports, Tips and Tricks. Min. 1 year OJT using Mentor with standardized guidelines	Technician will compile a portfolio of 5 complex projects in which he/she satisfactorily completed different phases of CADD work to be initialed and approved by supervisor utilizing standardized checklist. Technician will complete a CADD competency test using Microstation and Geopak and a set of plans from a pre-selected catalogue of plans. The test will include computing the alignment, selected -L- line and -Y- line intersections, selected R/W monuments, easement points, and property line ties. Then, create a data output file.
All Core	3LS2	DTM/DEM Development (From Ground Measurements)	All	3LS1	Includes development and compilation of DTM/DEM data from various sources, with DTM Development, Review, and Troubleshooting	3	Attend "DTM/DEM Applications/Development" class. Min. 6 months OJT using Mentor with standardized guidelines	Technician will compile a portfolio of 5 complex projects in which he/she satisfactorily completed different phases of DTM/DEM work to be initialed and approved by supervisor utilizing standardized checklist. Technician will complete a DTM/DEM competency test using Microstation and Geopak and a set of plans from a pre-selected catalogue of plans. The test will include applications to include analyzing/merging multiple data sources, error detection, creating *.TIN files, creating contour files to include blunder detection, contour smoothing, spot elevation placement, surface-to-surface volume computations, cutting cross-sections using Geopak, and rendering DTM/DEM models.
All Core	3LS3	Level I PSD/Property Development (Basic Applications of Math, CADD, and Survey to Property Computations)	All	2LS10, 3LS1, 3LS4	Includes CADD Applications in the complete preparation of PSD (condemnation) exhibits	3	Min. 6 months OJT using Mentor with standardized guidelines (NCPROP). Level III CADD as a prerequisite. Property Research Level II as a Prerequisite	Technician will compile a portfolio of 5 PSD's in which he/she satisfactorily completed less complex different phases of PSD development to be initialed and approved by supervisor utilizing standardized PSD checklist.
All Core	3LS4	Property Research Level II (More complex, multi-tract, or poorly documented property divisions)	All	2LS1	GIS data searches and acquisition from County sources/ Grantee-Grantor research, complex, multi-tract properties	3	Prerequisite of Property Research Level I; Min. 12 months OJT using Mentor with standardized guidelines	Employee must successfully complete a Property Research Checklist on 5 diversified projects where GIS data, deeds, and plats are retrieved from County Internet or Courthouse sites in completion of PSD/Property file to be initialed and approved by Supervisor for one year period. Successfully plot and juxtapose deeds to create a land area mosaic on 5 projects.

All AO	3LS5	Compilation of Technical Reports.	All	2LS7	Includes writing and/or compiling technical engineering reports utilizing Word, Excel, Access, and technical data from multiple sources	2	Prerequisite of Level 2 Computer Usage; Effective Writing Techniques (ADM 715) ; Access I (COM 250). Minimum 6 months OJT using Mentor with standardized guidelines	Prepare/review project survey reports and alignment text reports for 3 projects based on supervisor's observation. Enter and query information/generate reports from property survey's database with minimum errors within a 6 month duration.
All AO	3LS6	Scan Imaging Manipulation	All	2LS9	Includes creating CADD design files utilizing Decartes, Image Viewer or other photo manipulation software.	3	Min. 3 months OJT using Mentor with standardized guidelines. Successful completion of Raster Manager class. PDC: Comply 5 photo condemnation exhibits using Geo-referenced electronic photography & CADD mapping.	Able to satisfactorily generate, compile, & relate files to project specifications by supervisory review and checklist of finished product on at least 5 projects.
Field AO	3LS7	Level II Work Zone Safety	All	2LS11	Minor Traffic Control/ Sign Placement, non-high volume travelways	3	Basic Work Zone Safety (SAF 500); Work Zone Signing for Mobile Operation Safety; Supervisor Safety Training (SAF 010); Identification & Treatment of High Hazard Materials Workshop; Min. 6 months OJT using Mentor with standardized guidelines	Successfully score at least 90% on a Lead Worker Work Zone signing and PPE test based upon NCDOT Survey Safety Supplement to the MUTCD Manual. After completion of test, successfully implemented Daily Safety Tailgate meeting, directed safety requirements, and made adjustments as needed on 5 diversified projects as evidenced by Safety Audit
Field AO	3LS8	Level 2 Supervision/Lead Worker - Secondary Survey Team Leader	All	3LS7, 3LS4	Survey Team Task Leader, including performing as survey team leader for less complex survey projects	3	Required Prerequisites: Level I Supervision/Lead Worker (2LS11) and Level 2 Work Zone Safety (3LS7). Min. 12 months OJT using Mentor with standardized guidelines. Leadership Concepts (MGT 635), Leading Teams (MGT 650), Coaching (MGT 645)	Exemplify good judgement in leading a survey crew in completion of 10 more complex survey phases. Phases should include supervising 2 DTM collection phases, 2 Hydro data collection phases, and 2 utility collection phases, 2 property data collection phases, 2 less complex R/W staking phases. Expectations Form should include timeliness, quality, quantity, organizational development, assertiveness, leadership, delegation, etc. as identified by supervisor. Successful completion of required classes.

Field AO	3LS9	Photogrammetric Ground Support Level II	All	3LS7	Lead Worker in Paneling, Photo classification (preliminary and design mapping), location of obscure planimetrics	3	Min.1 year to include at least one panel season of OJT using Mentor with standardized guidelines. Attend Basic Photogrammetry Course. Cross train with the Photogrammetry Unit for 3 days during panel season. Require Photogrammetric Ground Support II as a Prerequisite	<p>Successful completion of Basic Photogrammetry Course. Satisfactory passing of Photogrammetry test. Satisfactory compile and complete a min. of 3 diversified photogrammetric ground support projects (i.e. Bridge, Rural, Interstate &/or Urban). At the completion of each photogrammetric ground support project, conduct a interview utilizing a standardized evaluation form to assess accomplishments. At completion of 1 year of OJT, conduct a final evaluation interview to discuss photo support projects. Interview will include a standardized evaluation form of photo support criteria questions and scenarios to be determined by upper management. Assessment interview team will review photo support projects completed during the year. Successful completion will be determined by supervisor's observation and assessment interview team.</p>
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