

SWCC Criteria for Technical Specialists Designation

Category	Role	Experience / Education / Other Requirements	Training Requirements
Structural Animal Waste (SD-Design, SI-Inspection)	Design and/or installation of lagoons, storage ponds, dry stacks, storage structures, composters, push off ramps, curbing, settling basins and other similar structures. Also the design and installation of a spillway in conjunction with the decommissioning of a lagoon or storage pond	<ol style="list-style-type: none"> 1) NRCS job approval authority***; or 2) Professional Engineer license 	NC Rules and Regulations Governing Animal Waste Management Systems by DEQ (or DSWC*)
Runoff Controls (RC)	Design and installation of erosion control BMPs	<ol style="list-style-type: none"> 1) NRCS job approval authority; or 2) Professional Engineer license. 	NC Rules and Regulations Governing Animal Waste Management Systems by DEQ (or DSWC*)
Irrigation Equipment (I)	Design and installation of irrigation systems to include pipe size, pump horsepower, nozzle size, system layout including required land application setbacks.	<ol style="list-style-type: none"> 1) Design Certification by National Irrigation Association; or 2) Three years experience in the design of irrigation system for waste application; and 3) Proficiency in soil science and basic hydraulics; or 4) Professional Engineer license; or 5) NRCS Job Approval Authority 	<ol style="list-style-type: none"> 1) CES Wettable Acres Training Course 2) NC Rules and Regulations Governing Animal Waste Management Systems by DEQ (or DSWC*)
Wettable Acres (WA)	Determine wettable acres in accordance with Certified Animal Waste Management Plan	<ol style="list-style-type: none"> 1) I or WUP/NM Designation, or 2) NRCS Job Approval Authority 	<ol style="list-style-type: none"> 1) CES Wettable Acres Training Course 2) NC Rules and Regulations Governing Animal Waste Management Systems by DEQ (or DSWC*)
Waste Utilization Plan / Nutrient Management (WUP/NM)	<ol style="list-style-type: none"> 1) Development of land application plans including crop acreages available to meet nutrient and hydraulic loading rates, application windows, determination of animal waste nutrient amounts, evaluation of fields for phosphorus loss, field buffers and other related measures; 2) Confirm storage volumes, exterior lots, and cropping systems; 3) Developments and establishment of buffers and verification of land application setbacks; 4) Certify the Land Application component of a USDA Comprehensive Nutrient Management Plan. 5) Approve river basin nutrient management plans; and 6) Decommissioning of a lagoon or storage structure other than the design or installation of a spillway. 	<ol style="list-style-type: none"> 1) Previous WUP designation; or 2) 3 years of nutrient management planning; 3) 4 year degree in agronomy or related field; or 4) a combination of education and experience totaling 4 years; or 5) NRCS Job Approval Authority; or 6) Professional Engineer licensed after April 1, 2003 	<ol style="list-style-type: none"> 1) Nutrient Management by CES (or NRCS**) 2) NC Nutrient Management Software 3) PLAT Course 4) Conservation Planning with RUSLE 5) NC Rules and Regulations Governing Animal Waste Management Systems by DEQ (or DSWC*)

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Inorganic Fertilizer/Nutrient Management (IF/NM)	Develop river basin nutrient management plans for inorganic fertilizer only.	1) Previous WUP designation; or 2) 3 years of nutrient management planning; 3) 4 year degree in agronomy or related field; or 4) a combination of education and experience totaling 4 years; or 5) NRCS Job Approval Authority	1) Nutrient Management by CES (or NRCS**) 2) NC Nutrient Management Software 3) PLAT Course 4) Conservation Planning with RUSLE
Water Management (WM)	Design and installation approval of subsurface water management systems	1) NRCS job approval authority; or 2) Professional Engineer license.	NC Rules and Regulations Governing Animal Waste Management Systems by DEQ (or DSWC*)

- * Only offered when DEQ Course is unavailable
- ** Only offered when NCSU Course is unavailable
- *** As specified in GS 89C-25(6), the SWCC recognizes that NRCS and SWCD employees with appropriate engineering job approval authority meet the requirements for receiving the SD/SI designation.