

SWCC Criteria for Technical Specialists Designation

Category	Role	Experience / Education / Other Requirements	Training Requirements
Collection, Storage, and/or Treatment (SD-Design, SI-Inspection)	Design and/or construction inspection of lagoons, storage ponds, dry stacks, storage structures, composters, push off ramps, curbing, settling basins and other similar structures.	<ol style="list-style-type: none"> 1) NRCS job approval authority***; or 2) Professional Engineer license 	
Runoff Controls (RC)	Design and installation of filter strips, grass channels, and related nonstructural BMPs used to reduce runoff from exterior lots (primarily dairy operations)	<ol style="list-style-type: none"> 1) Agency designation of staff*; or 2) Experience in design & implementation of nonstructural BMPs; or 3) Professional Engineer license. 	
Irrigation Equipment (I)	Design and installation of irrigation systems to include pipe size, pump horsepower, nozzle size, system layout, thrust blocks, etc. and operation plan to meet criteria of Waste Utilization Plan (hours per set, etc.).	<ol style="list-style-type: none"> 1) Design Certification by National Irrigation Association; and 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; 5) NRCS Job Approval Authority*** 	CES Wettable Acres Training Course
Wettable Acres (WA)	Determine wettable acres in accordance with Certified Animal Waste Management Plan	<ol style="list-style-type: none"> 1) I or WUP Designation, or 2) Agency designation of staff* 	CES Wettable Acres Training Course
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 related measures; 2) Confirm storage volumes, exterior lots, lagoon closures, and cropping systems; 3) Developments and establishment of buffers and setbacks to manage runoff from exterior lots; 4) Approve river basin nutrient management plans; and 5) Certify the Land Application component of a USDA Comprehensive Nutrient Management Plan. 	<ol style="list-style-type: none"> 1) Previous WUP designation; or 2) 3 years of nutrient management planning; or 3) 4 year degree in agronomy or related field; or 4) a combination of education and experience totaling 4 years; or 5) Agency designation of staff*; 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
		<ol style="list-style-type: none"> 1) Professional Engineer licensed after April 1, 2003 	<ol style="list-style-type: none"> 1) PLAT Course 2) Conservation Planning with RUSLE

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Inorganic Fertilizer/Nutrient Management (IF/NM)	Develop river basin nutrient management plans for inorganic fertilizer only.	<ol style="list-style-type: none"> 1) Previous WUP designation; or 2) 3 years of nutrient management planning; or 3) 4 year degree in agronomy or related field; or 4) a combination of education and experience totaling 4 years; or 5) Agency designation of staff* 	<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
Water Management (WM)	Design and installation approval of subsurface water management systems	<ol style="list-style-type: none"> 1) NRCS job approval authority; or 2) Professional Engineer 	

- *Includes NRCS, SWCD staff under NRCS Job Approval Authority, CES, DSWC, and NCDA&CS
- ** 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.