Proficiency Model - Student Trainee (Soil Conservationist) and Employee Development Plan for: (name)

4/2009 version

	Subject	Present KSA level	Michiq Requi KSA le 1st yr	red	Selected Training Methods	References	Comments - KSA level achieved, date, initials
			,		onservation Plan	•	
			Gei	nera	al Agicultural Char	acteristics	
A. Field Crops	Identify common field crops in local work area, locate references for planting and harvest dates and methods.		1	2	OJT Attend local field days	 E-489 Seeding Practices for Michigan Crops Agronomy Technical Note 4 , Identification of Cereal Grains and Grasses Without Seed Heads Agronomy Tech Note 4a, ID. of Common Legumes 	
B. Specialty Crops	Recognize common specialty crops in local work area (potatoes, cucumbers, snap beans, asparagus); locate references for planting and harvest dates and methods.		1	2	OJT Attend local field days	 Childers: Fruit Book used in MSU Introductory courses. Current MSUE bulletins. 	
C. Farm Equipment	Recognize equipment commonly used for crop production in local work area including tilling/cultivating, planting, and harvesting.		1	2	Ag Expo OJT	 Technical Note Agronomy #27 "Calibration of Seeding Equipment" Core 4 manual on Conservation Tillage Equipment National Agronomy Manual 	
D. Livestock	Understand basic management of livestock operations in local work area. Aware of differences in livestock life phases and associated terms.		1	2	OJT Attend local 4-H fair AgLearn- Fundamentals of Agriculture; Beef Production for NRCS	- MSUE Catalog Publications	
E. Weeds	List common weed species in local work area.		1	2	OJT	 E-1363 "Guide to the I.D. of Common Weed Seedlings of Michigan" E-791 "Problem Perennial Weeds of Michigan" NCR Ext. Pub. No. 281 "Weeds of 	
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	Subject	Present KSA level	Mich Requ KSA 1st	uired	Selected Training Methods	References Comments - KSA level achieved, date, ir
	,		yr ,	yr		the North Central States" - NCR Ext. Pub. No. 607 "Common Weed Seedlings of the North Central States" - Technical Note Agronomy #4 "Identification of Cereal Grains and Grasses without Seed Heads" Technical Note Agronomy #4b "Identification of Common Grasses"
F. Trees	Aware of common tree species in local work area including their uses, markets and general silviculture. Aware of taxonomic keys and other tools for tree identification.		1	2	OJT	- Michigan Trees, Barnes & Wagner
G. Shrubs	Aware of common shrub species in local work area including their uses and growth habits. Aware of taxonomic keys and other tools for shrub identification.		1	2	OJT	 Michigan Trees, Barnes & Wagner Midwest Wetland Flora Field Guide Shrubs of Michigan, Cecil Billington
H. Conservation plants	Identify important conservation plants (including native plants) of local work area.		1	2	OJT	 Agronomy Technical Note 4 "Identification of Cereal Grains and Grasses Without Seed Heads" Key to Native Perennial Grasses Vegetating with Native Grasses in Northeast North America - Conservation Plants Pocket ID Guide

	Subject	Present KSA level	Michi Requ KSA I 1st yr	ired evel	Selected Training Methods	References	Comments - KSA level achieved, date, initials
			W	ork	ing with Individuals	s/Groups	
A. Social Protocols	Aware of social science aspects of conservation. Demonstrate effective communications with customers, extend considerations/courtesies to customers. Understand the concept of stakeholders.		4	4	OJT Orientation for Student Trainees	- 420 GM - National Social Sciences Manual	
				Pc	licies/Laws/Regula	ations	
A. Field Office Technical Guide (FOTG)	Understand use of the FOTG in providing technical assistance, including accepted technology and levels of assistance. Navigate within the content of each FOTG Section and subsections.		1	2	OJT, Basic Conservation Orientation	- FOTG - 450-GM Part 401	
B. Freedom of Information Act	Aware of proper response to requests for case file information from customers, employees, and others. Understand NRCS role in protecitng client information.		1	2	Orientation for Student Trainees OJT	- 120-GM Part 408	
C. National Environmental Policy Act	Aware of parts of the Planning Process during which NEPA is considered. Aware of documentation associated with NEPA for individual conservation plans.		1	3	OJT Basic Conservation Orientation	- 190-GM Part 410, Subparts A & E - 450-GM Part 405, Subpart A	3
D. FSA 1985, FACTA 1990, and FAIRA 1996, 2002, 2008	Understand and provide assistance in applying NRCS HELC/WC policy.		1	2	OJT	 National Food Security Act Manual, Third Edition 340-GM Part 404, Part MI 404, Subpart B 	
E. Permits - state, federal	Aware of federal, state, tribal, and local laws and regulations		1	2	OJT	- 180-GM, Part 409.2 - FOTG Section I, Laws	
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	Subject	Present KSA level	Michi Requ KSA 1st yr	iired Ievel	Selected Training Methods	References Comments - KSA level achieved, date, in
and local	regarding when permits may need to be obtained before proceeding with conservation system implementation.					
F. Permits- state, federal and local	Recognize situations that may require federal, state, local and tribal permits.		1	2	OJT	-180 GM, Part 409.2; FOTG Section I, Laws
					Agronomy	
A. Erosion Prediction	Understand how erosion occurs including sheet & rill, ephemeral gully, classic gully, and wind erosion. Understand how conservation practices can effect soil erosion potential. Calculate soil erosion loss.		1	2	OJT Erosion Prediction Calculations	- FOTG Section I, Erosion Prediction - RUSLE 2; WEQ
B.Risk Assessment	Recognize field conditions under which loss of agrichemicals, manure and nutrients from a farm field occurs. Use tools in making risk assessments. Aware of alternative mediation strategies for prevention of loss.		1	2	OJT	 MARI, Agronomy Manual part 503 FOTG Section II, Water Quantity and Quality, N Leaching; Section IV N Leaching Index; WinPST; Section IV Phosphorus Index, Pasture Condition Score Sheet Core 4 manual
C. Core Agronomic Conservation Practices	Aware of the following conservation practices including location, design and layout.					
C1. Conservation Cover			1	2	OJT	 FOTG Section IV - 327 Practice Standard CREP job sheets Conservation Sheets Engineering Specifications
C1. Conservation Crop Rotation			1	2	OJT	- FOTG Section IV - 328 Practice Standard - RUSLE C factor calculation
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	Michigan			
	Present Required	Selected		
	KSA KSA level	Training		
Subject	level 1st 2nd	Methods	References	Comments - KSA level achieved, date, initia
	yr _{vr}			
C1. Cover Crop	1 2	OJT	 FOTG Section IV - 340 Practice Standard E-2646, Michigan Field Crop Ecology: Managing Biological Processes for Productivity and Environmental Quality E-2126, Annual Summer Forage Production in Michigan Michigan Conservation Sheet "Cover Crop" 	
C1. Critical Area Planting	1 2	OJT	- FOTG Section IV, 342 Practice Standard	
C1. Filter Strip	1 2	OJT	 FOTG Section IV, 393 Practice Standard Filter Strip Conservation Sheet Core 4 Manual, Part 4 - Buffer Practices, Chapters 1, 2, 3e, 4, 5 and 6 	
C1. Nutrient Management	12	OJT	 FOTG Section IV - 590 Practice Standard 180-GM, Part 409 Nutrient and Waste Utilization GAAMPS E-2904 Nutrient Recommendations for Field Crops in Michigan; -E2934 Nutrient Recommendations for Vegetable Crops in Michigan MI Tech Notes, Agronomy Technical Note 28 "Preparing the Crop Nutrient Budget" 	
C1. Pest Management	1 2	OJT	- Core 4 Manual - FOTG Section IV - 595 Practice Standard - E-484 Weed Control Guide for Field Crops	

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		Present	Requ		Selected		
		KSA	KSÅ	level	Training		
	Subject	level		2nd	Methods	References	Comments - KSA level achieved, date, initials
			yr	yr			
C1. Residue Management (Mulch till, no- till, seasonal)			1	2	OJT	- Core 4 Manual - FOTG water erosion section I, Erosion Prediciton - FOTG Section IV - 329 Practice Standards - Fact sheets	
					Biology/Recrea	ation	
A. Wildlife ecology	Recognize NRCS responsibility to provide technical assistance on wildlife management options for wildlife species in local work area.		1	2	OJT	- FOTG - "Managing Michigan's Wildlife- A Landowner's Guide"; - Biology Technical Note 12.	
B. Threatened and Endangered Species	Aware of Federally and State Listed Species in local work area. Use species list or consult State Biologist as needed.		2	3	OJT	 Michigan Natural Features Internet Site Michigan Biology Technical Note 11 Federal Threatened and Endangered Species; Biology Technical Note 12 index. 	t
C. Wetland Delineation	Aware of procedure to identify and delineate wetlands for federal purposes including major wetland plants.		1	1	OJT	 National Food Security Act Manual Midwest Wetland Flora Guide 1987 Corps Manual 	
D. Biology Conservation Practices	Aware of the following conservation practices of Upland and Wetland habitats and complementary conservation practices for use.						
D1. Upland Wildlife Habitat Management			1	2	OJT	- FOTG Section IV- 645 Practice Standard - "Managing Michigan's Wildlife- A Landowner's Guide" - Conservation Sheet "Wildlife Corridor Development"	

	Subject	Present KSA level	Michi Requ KSA I 1st yr	ired evel	Selected Training Methods	References	Comments - KSA level achieved, date, initials
					Engineering		
A.Engineering Surveys	Understand mechanics and basic functions of survey equipment, know how to reduce notes. Aware of basic engineering planning, design, an implementation of conservation engineering practices.		1	2	OJT Basic Engineering and Surveying for Conservation Practices	 Engineering Field Handbook (NEH Part 650), Chapter 1 - Engineering Surveys Technical Release No. 62, Engineering Layout, Notes, Staking and Calculations 	
B. Conservation Engineering Practices	Aware of how to plan conservation practices including location, design and layout. Aware of the beneficial use of each conservation engineering practice.					 Engineering Field Handbook (NEH Part 650) Michigan CO-01 Construction Specifications Michigan Engineering Standard Drawings 	
B1. Diversion			1	2	OJT	- FOTG Section IV, 362 Practice Standard - Engineering Software	
B1. Grade Stabilization Structure			1	2	OJT	 FOTG Section IV, 410 Practice Standard Engineering Software. 	
B1. Grassed Waterway			1	2	OJT	 FOTG Section IV, 412 Practice Standard Engineering Software 	
B1. Heavy Use Area Protection			1	2	OJT	- FOTG Section IV, 561 Practice Standard	
B1. Roof Runoff Management			1	2	OJT	 FOTG Section IV, 558 Practice Standard Agricultural Waste Management Field Handbook (NEH Part 651) Engineering Software 	
B1. Stream Crossing			1	2	OJT	- FOTG Section IV, 728 Practice Standard Agricultural Waste Management	

	Subject	Present KSA level	Michi Requ KSA I 1st yr	ired evel 2nd	Selected Training Methods	References	Comments - KSA level achieved, date, initial
			,			Field Handbook (NEH Part 651) - Engineering Software - Stream Corridor Restoration: Principles, Processes, and Practices (NEH Part 653)	
B1. Waste Storage Facility			1	1	OJT	 FOTG Section IV, 313 Practice Standard Agricultural Waste Management Field Handbook (NEH Part 651) Engineering Software 	
C. Construction Inspection	Able to follow NRCS policy regarding safety during construction activities.		3	3			
					Forestry		
A Policy	Aware of Forestry as a component of conservation planning.		1	1	OJT	- National Forestry Manual - Parts 535 and 536	
B Core Forestland Conservation Practices	Aware of the following conservation practices including location, design and layout.		1	1	OJT	 National Forestry Handbook Parts 636 and 637 Improving Hardwood Timber Stands(MSU-E Bulletin E-1578) Agroforestry Notes- National Agroforestry Center Northern Hardwoods in the North Central States, USFS Gen. Tech. Report NC-39 Red Pine in the North Central States, USFS Gen. Tech. Report NC-33 	5
B1. Tree/Shrub Establishment	Use reference material to make species selections. Use references to make tree/shrub spacing design.		1	2	OJT	 FOTG Section II part K Site Suitability Index, also -Sec. IV - 612 Practice Standard Michigan Conservation Design Sheet 612a "Tree and Shrub Planting for Reforestation, Windbreaks and Wildlife" Michigan Conservation Sheet 	2

ç	Subject	Present KSA level	Michi Requ KSA I 1st yr	ired evel	Selected Training Methods	References	Comments - KSA level achieved, date, initial
			;	ŗ		"Weed Control for Tree and Shrub Establishment" - Tree Planting in Michigan- MSUE Bulletin # E-771;	
				G	eographic Inform	ation	
Locating Geographic Features	Able to use maps and photos to locate a specific geographic feature or parcel of property based on physical location, legal description, etc.		1	2	OJT Basic Conservation Orientation		
					Grazing		
A. Policy	Aware of grazing practices as a component of conservation planning		1	2	OJT	- National Range and Pasture Handbook Chapter 1,Chapter 5, Chapter 11	
B. Core Grazing Conservation Practices							
B.1 Prescribed Grazing	Aware of inventories needed. Calculate forage demand by livestock. Estimate forage supply from hay yields, producer records, or in field dry matter tools.		1	2	OJT	FOTG Section IV Prescribed Grazing Conservation Practice Standard 528, Prescribed Grazing conservation sheet; Section 1 Grazing Technical Note 3 Designin a Prescribed Grazing System.	g
				S	Soils and Soil Sur	veys	
A Soil surveys	Aware of how soil surveys are made and how to use them.		1	2	OJT Making and Using a Soil Survey		
B Soil Interpretations	Aware of soil Interpretations for cropland, woodland, wildlife, engineering, recreation and urban areas		1	2	OJT Making and Using a Soil Survey	 Local soil survey FOTG section II, Soil Interpretations NSSH, Section 620 MSU Fertilizer Recommendations for vegetables and field crops, Bul. E550A, E550B. 	

S	Subject	Present KSA level	Mich Requ KSA 1st yr	uired	Selected Training Methods	References	Comments - KSA level achieved, date, initials
C Interpretive groupings of soils	Aware of interpretative groupings of soils for land capability classes, prime farmland, hydrologic soil units, and Michigan Soil Management groups.		1	2	OJT Making and Using a Soil Survey	- Local soil survey manual - MSU Research Report #254 - USDA Ag. Handbook 210	
D Basic soil properties	Aware of basic soil properties including soil drainage, soil permeability, USDA soil texture, Unified texture, AASHTO, and soil structure		1	2	OJT Making and Using a Soil Survey	 Local soil survey SSM, Chapter 3, applicable parts 	
E Soil Quality	Aware of indicators of soil quality		1	2		- Soil Quality Thunderbook; Website soils.usda.gov/sqi	
					Water Quality		
Policy	Aware of NRCS role in Water Quality		1	2	OJT	- 460-GM	
			C	cons	ervation Planning	Process	
Conservation Planning Process	Aware of the NRCS planning process, and the use of supporting technology, in order to assist clients in making decisions resulting in implemented conservation systems that conserve, maintain, and improve our natural resources and meet the client's needs.		1	2	OJT Basic Conservation Orientation	- 180-GM Part 409 - NPPH, 600.0-600.2	
Conservation Plans	Aware of proper documentation for a conservation plan, including creating a new case file, conservation notes, and practice certification.		1	2		120 GM Part 403 Subpart A National Planning Procedures Handbook Part 600.3 450 GM Part 407 Documentation, Certification and Spot-checking	

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S	Subject	Present KSA level	Requ KSA 1st yr		Selected Training Methods	References	Comments - KSA level achieved, date, initials
					Programs		
				C	Conservation Progr	ams	
Contracting	Aware of the different types of cost-share contracts used for landowners as tools to promote applicable programs (WRP, PL-566, CRP, EQIP, WHIP, etc) as incentives to landowners to provide total farm planning.		1	2	OJT	2008 Farm Bill legislation; Program Manuals; 120 GM Part 404	
Policy	Locate NRCS policy regarding Conservation Programs Find program manuals. Find program fact sheets		1	1	OJT	 Program Manuals (2-CRP; 1-MI- CRP; Title 440 Conservation Programs Manual Part 517 [WHIP]; Part 514[WRP]; [EQIP]; Part 520 [FIP]; Part 523 [FPP] Fact Sheets (WHIP, WRP, EQIP, CRP) 	
					Plant Materials		
Policy	Aware of the mission, purpose, and authority of the NRCS – Plant Materials Program. Aware of PMC function in evaluation and release of conservation plants		1	2	OJT Visit PMC	 National Plant Materials Manual Part 539.2, Exhibit 539-5 National Plant Materials Manual Part539.0, General National Plant Materials Manual Part 539.1, Authority 	
					State Programs	3	
NRCS role	Aware of NRCS's role in providing technical assistance for state programs.		1	1	OJT	- GM	
		F	Reso	urce	e Conservation & D	Development	
Resource Conservation and Development	Aware of the RC&D program, purpose and structure; RC&D Associations, relationship to other programs.		1	1	OJT Atetnd RC&D meeting	 National RC&D Manual, sections 523, 524 & 525 RC&D Council Member Handbook and promotional flyers and factsheets available on-line. 	ζ

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	Jubject	10101	yr ,	<u>r</u>	Moulous	References								
	Management Operations/Administration													
					Accountability									
Accountability	Accurately report time in TCAS. Report progress. Aware of NRCS responsibility in quality assurance		3	3	OJT Orientation for Student Trainees	 GM Title 250, Part 404, Subpart D GM Title 340 Field Operations Training Manual Enhanced Integrated Accountability System/ TCAS Manual PRS, TCAS, and IAS web sites 								
					Civil Rights									
Civil Rights	Aware of USDA Civil Rights/EEO policy in relation to equal treatment of employees and customers in relation to race, color, religion, sex, national origin, age or handicap. Aware of USDA policy regarding sexual harassment and to identify sexual harassment.		3	3	OJT AgLearn Civil Rights courses Orientation for Student Trainees	- GM Title 230 - NRCS and USDA Offices of Civil Rights web sites - Michigan Outreach Resource Materials								
					Outreach									
Outreach	Aware of NRCS policy and actions talke to reach underserved, non-traditional and minority clients and communities in the local work area.		1	2	OJT	- GM Title 230, Part 405 - State Outreach Committee Business Plan -Field Office Outreach Plan								

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				Wo	rking with Other Ag	gencies	
NRCS Partners	Aware that NRCS cooperates with local, state and federal agencies.		1	1	OJT Orientation for Student Trainees		
	Aware of the functions and responsibilities for partner agencies and how they relate to NRCS. Aware of NRCS relationship with Conservation Districts						
					Contracting		
Contracting	Aware of contracting compliance procedures		1	2	Workshop OJT	- 2008 Farm Bill Legislation - Program Manuals - 120 GM, Part 404 -Watershed Plan	
				Inf	formation and Edu	cation	
A. Policy	Aware that NRCS carries out planned public information work. Underatnd NRCS responsibility for clearanc and review of public information for release. Aware that the NRCS has a state level public information and education officer that can assist in media developed for use in the local work area.		1	2	OJT	260 GM	
A. Policy	Aware of NRCS information policy and general guidelines for public information responsibilities of NRCS employees. This includes Basic Purposes of Information Work, Kinds of Media, Kinds of Information Activities, and proper Clearance and Review.		1	2	OJT	- 260-GM	
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	Subject	Present KSA level	Michi Requ KSA 1st yr	ired evel	Selected Training Methods	References	Comments - KSA level achieved, date, initials
B. Directives and Records	I Use Technical References including FOTG, General Manual, etc. Aware of proper case file administration.		1	2	OJT	450 GM Part 401 Technical Guides Subpart A 450 GM Part 407 Documentation, Certification and Spot-checking	,
B. Directives and records	Aware of Technical References including FOTG, General Manual, etc. Aware of proper documentation for a conservation plan, including creating a new case file, conservation notes, and practice certification.		1	2	OJT	 120-GM, Part 403, Subpart A National Planning Procedures Handbook, Part 600.3 450-GM, Part 401 Technical Guides, Subpart A 450-GM, Part 407 Documentation, Certification and Spot-Checking 	,
			Ηι	ıma	an Resources/Sup	pervision	
					Personnel Policie		
Hours of duty	Knowledge of policy/procedure for setting work schedule.		3	3	OJT Orientation for Student Trainees	- 360-GM, Part 427 and 430	
Organization	Aware of USDA organization, NRCS national and state organization, relationship to Conservation Districts, and relationship to MDA, MDNR, MDEQ.		1	1	OJT Orientation for Student Trainees	- 360-GM, Part 404	
Performance appraisal	Knowledge of policy and procedures used by supervisor for assessing quality/quantity of work produced versus that expected. Understand opportunities for promotion and upward mobility.		1	1	OJT Orientation for Student Trainees	- 360-GM, Part 409	
Training	Aware of process to create an Employee Development Plan; request technical and administrative training needed.		1	1	OJT Orientation for Student Trainees	- 360-GM, Part 410	

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Training- Supplementing OJT	Attendance and Participation in available formal trainings within driving distance. At the discretion of the supervising DC.		1	1	Consult current year Training Plan and Calendar; email Training Officer and Course Instructor/Coordinator to enroll Student Trainee	Michigan Course Catalog	
					EEO		
EEO	Aware of alternative dispute resolution activities and contacts.		3	3	OJT		
					Leave		
Leave	Knowledge of earning rates, appropriate use, and approval requirements of annual leave, sick leave, family friendly leave, maternity leave, or other paid periods of absence from work.		3	3	OJT Orientation for Student Trainees	- 360-GM, Part 415	
					Benefits		
Benefits	Aware of FERS retirement system, health and life insurance, Thrift Savings Program (TSP), Employee Assistance Program (EAP), and other employee benefits.		2	3	OJT Orientation for Student Trainees	- 360-GM, Parts 416, 417 and 420 - www.opm.gov	

(Subject	Present KSA level	Mich Requ KSA 1st yr	uired	Selected Training Methods	References	Comments - KSA level achieved, date, initials
				<u>r</u> .	Safety		
A. Safety - Vehicle	Knowledge of appropriate and safe use of Government Owned Vehicle (GOV), reporting accidents, injuries, recognizing unsafe conditions, and use of safety equipment in order to utilize vehicles in a safe and efficient manner.		3	3	OJT Orientation for Student Trainees	- 120-GM, Part 405	
B. Safety - Biosecurity	Follow appropriate biosecurity measures for day-to-day work situations.		3	3	OJT Basic Conservation Orientation	GM 430 Part 405 Subpart H Homeland Security and Emergency Preparedness MI Supplement GM 430 Part 405 Subpart H	
					Ethics		
Ethics, Responsibilities and Conduct	Knowledge of appropriate use of NRCS resources and equipment (including computers), prohibited conduct, relationship to farm organizations, receipt of gifts, political activity, bribery, and conflicts of interest. Aware if prohibited employee activities.		3	3	OJT Orientation for Student Trainees	- www.nhq.nrcs.usda.gov/ethics - www.usda.gov/ethics	