

NCR FSMA Identified Training Needs and Suggested Resources



North Central Region

Center for FSMA Training, Extension
and Technical Assistance

In addition to the resources listed below, make sure to check the NECAFS Produce Safety Clearinghouse (<https://www.uvm.edu/extension/necafs/clearinghouse>), the Produce Safety Alliance website (<https://producesafetyalliance.cornell.edu/resources/general-resource-listing/>), the Food Safety Preventive Controls Alliance website (<https://www.ifsh.iit.edu/fspca>), and the guidance from the FDA (<https://www.fda.gov/food/guidance-regulation-food-and-dietary-supplements/food-safety-modernization-act-fsma>).

Identified Training Need	What resources exist:	Where to find resources:
In depth water discussion	Don Stoeckel's NCR webinar on water. August 15, 2019	https://www.ncrfsma.org/webinar-listening-session
	Water Summit webinar and water resources by the PSA	https://vod.video.cornell.edu/media/Produce+Safety+Educator%27s+Call+30/1_a7700ff5
	FSMA Produce Safety Rule Water Requirements: insights to get you organized by the PSA	https://producesafetyalliance.cornell.edu/resources/fsma-produce-safety-rule-water-requirements%c2%a0insights-get-you-organized/
	Agriculture Water Calculators by UC Davis	https://ucfoodsafety.ucdavis.edu/pre-post-harvest/produce-preharvest/agricultural-water
	The Water Analysis Method Requirement in the FSMA Produce Safety Rule by the PSA	https://producesafetyalliance.cornell.edu/sites/producesafetyalliance.cornell.edu/files/shared/documents/Water-Analysis.pdf
	The Food Safety Resource Clearinghouse has numerous calculators, fact sheets, and videos on water issues	
Diversity training: Culturally sensitive	How to Avoid "Stepping In It" webinar by Dr. Connie Fisk	https://vod.video.cornell.edu/media/Produce+Safety+Educator%27s+Call+34/1_hptssy4a
	check with your local Extension agency for in-person training	

How to speak to regulators	FDA factsheets "What to expect of a Regulatory Inspection"	https://www.fda.gov/media/124328/download
	NSAC's blog post about what to expect during inspections	http://sustainableagriculture.net/blog/fsma-produce-safety-inspection-preview/
	Produce inspections for regulators virtual tours	https://www.youtube.com/watch?v=Q_KXS5pXHIs&t=4s
How to speak to the media (press releases, news, radio)	Journal of Extension article on speaking publicly about current events	https://joe.org/joe/2013june/tt5.php
	Journal of Extension article on social media	https://joe.org/joe/2018october/a3.php
	1993 article on responding to food safety crisis from Journal of Extension	https://www.joe.org/joe/1993winter/iw1.php
Connection between the environmental concerns and wildlife	PSA webinar by Dr. Paula Rivadeneira, Assistant Professor & Extension Specialist in the Department of Soil, Water, & Environmental Science at the University of Arizona - Yuma Agricultural Center. Jan. 8, 2018	https://vod.video.cornell.edu/media/Produce+Safety+Educator%27s+Call+28/1_t53ba43m
	NCR FSMA factsheet	https://www.ncrfsma.org/files/page/files/ncr_wildlife_fsma.pdf
	Balancing Food Safety and Organic Requirements for: Wild and Domestic Animals by CAFF and Farmers Guild	https://www.caff.org/wp-content/uploads/2018/01/WD-Animals.pdf
Translation of 3 rd party results to PSR: what are the differences	PSA Webinar by Jennifer Dougherty, USDA Auditor	https://vod.video.cornell.edu/media/Produce+Safety+Educator%27s+Call+29+-+Part+I/1_rqhcmxle
	parts 1 and 2	https://vod.video.cornell.edu/media/Produce+Safety+Educator%27s+Call+29+-+Part+II/1_w18ecn28
	Harmonized GAPs Food Safety Standard Audit	https://www.uvm.edu/extension/necafs/clearinghouse/resources/harmonized-gaps-food-safety-standard-audit
	PSA: Produce Safety, Audits, and Regulations	https://producesafetyalliance.cornell.edu/sites/producesafetyalliance.cornell.edu/files/shared/documents/Audits-and-regulations.pdf

	USDA audit information	https://www.ams.usda.gov/services/auditing/gap-ghp
Biosecurity: what are the standards for other commodities for farm practices; how long between farm visits	Australia's website on farm biosecurity	https://www.farmbiosecurity.com.au/
	Washington State's Guide on Practical Biosecurity Recommendations for Farm Tour Hosts	https://research.libraries.wsu.edu:8443/xmlui/handle/2376/11919
	A Risk Management Framework for Plant Biosecurity	https://link.springer.com/chapter/10.1007/978-3-319-46897-6_5
Irrigation systems 101: What do wells, pumps, back flow units, fumigation units look like, how to determine there is a problem	Backflow Prevention Strategies: PSA webinar by Chris Callahan	https://vod.video.cornell.edu/media/Produce+Safety+Educator%27s+Call+37A+Draft+Produce+Safety+Rule+Guidance+Discussion/1_fav6v2d2
	Considering Irrigation Water Sources Fact Sheet by MI State Extension	https://www.canr.msu.edu/agrifood_safety/uploads/files/ref1_021.pdf
	Water Systems Inspections: video by MI State Extension	https://www.youtube.com/watch?v=94tqcqnKQo0&feature=youtu.be
	Dealing with Irrigated Crops by MI State Extension	https://www.canr.msu.edu/agrifood_safety/uploads/files/ref1_033.pdf
	University of Missouri irrigation resources	https://extension2.missouri.edu/programs/irrigation
	University of Tennessee Extension FSOP project on water treatment	https://irrigation.nmsu.edu/
Composting 101: all the many times and best practices	NCR FSMA factsheet	https://www.ncrfsma.org/files/page/files/ncr_bsaa0_final.pdf
	Soil Summit Summary	https://vod.video.cornell.edu/media/24+May+4%2C+2017A+Produce+Safety+Educator%27s+Call+%26+NECAFS+Webinar/1_7j25bnb5
	Food safe Compost Use by MI State Extension	https://www.canr.msu.edu/agrifood_safety/uploads/files/027_01%20reformat_Compost%20Use.pdf

	also available in Spanish Uso de abono inocuo para alimentos	https://www.uvm.edu/extension/necafs/clearinghouse/sites/default/files/files/3_bin_composting.pdf
	PSA webinar, held Sept. 30, 2019	https://vod.video.cornell.edu/media/t/1_zv88t4mr
	PSA Commercial Soil Amendment Suppliers	https://producesafetyalliance.cornell.edu/sites/producesafetyalliance.cornell.edu/files/shared/documents/FSMA-PSR-Documentation-Requirements-for-Commercial-Soil-Amendment-Suppliers.pdf
	Kansas State factsheet	https://www.uvm.edu/extension/necafs/clearinghouse/sites/default/files/files/t1_bsao_overview_v3.pdf
	ATTRA Sustainable Ag Tipsheet: Compost	https://www.ams.usda.gov/sites/default/files/media/Compost_FINAL.pdf
	Clearinghouse has numerous resources on this topic	https://www.uvm.edu/extension/necafs/clearinghouse/
	Crop Rotations, Composting and Cover Crops for Organic Vegetable Production	https://store.extension.iastate.edu/product/14760
Adult education: how to use supplemental materials and be out on time and have time for questions	Adult Education Theories: Informing Cooperative Extension's Transformation by Nancy Franz, Journal of Extension	https://www.joe.org/joe/2007february/a1.php
	Teaching or Facilitating Learning? Selecting the Optimal Approach for Your Educational Objectives and Audience by Dena Wise in the Journal of Extension	https://www.joe.org/joe/2017june/tt1.php
	Training and the Needs of Adult Learners in Journal of Extension	https://www.joe.org/joe/2006december/tt5.php
Agricultural Tea: What are they made of, how are they used, etc.	Compost Tea 101, University of Arizona	https://extension.arizona.edu/sites/extension.arizona.edu/files/pubs/az1739-2017.pdf
	The Myth of Compost Tea, Washington State University	https://s3.wp.wsu.edu/uploads/sites/403/2015/03/compost-tea-2.pdf
	Compost Tea to suppress plant disease, U of Vermont	https://www.uvm.edu/vtvegandberry/factsheets/compossttea.html

What parts of the PC Human Rule and PC Animal Rule apply to PSR growers (covered and not); key parts to other rules we should know about	Intersection of FSMA and NOP, Colorado State University	https://foodsystems.colostate.edu/wp-content/uploads/2017/09/FSMA-and-NOP-2017-final.pdf
	Develop and Implement a Hybrid Workshop in FSMA Produce Safety and PC Rules for Stakes Preventive Controls Rules For Stakeholders Grow	https://portal.nifa.usda.gov/web/crisprojectpages/1010643-develop-and-implement-a-hybrid-workshop-in-fsma-produce-safety-and-preventive-controls-rules-for-stakeholders-growing-and-processing-high-risk-produce.html
Produce Industry overview in the U.S.: Where is produce grown and how does it move; brokers; international, etc.		
International produce industry overview: where is produce grown and how can they bring it into the country	Fresh Produce Industry Overview in 2019 by PMA	https://agfstorage.blob.core.windows.net/misc/FP_com/2019/06/27/PMA%20ANZ%20State%20of%20the%20Industry%20Report%20Executive%20Summary.pdf
On boarding process		
a. Abbreviations	Acronym document	https://www.ncrfsma.org/files/news/files/produce_safety_acronyms_fall_2019.pdf