Immediately Available Virtual Resources for Training

- **NCSS Training Course Materials.** Use these files as “refresher training” for training you’ve taken in the past.
  - Available at [https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/edu/ncss/?cid=nrcs142p2_054324](https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/edu/ncss/?cid=nrcs142p2_054324)
- **Recommended curricula for specialty areas within the SPSD**
  - [Ecological Site Specialist](#)
  - [Geographic Information Specialist](#)
  - [Soil Scientist](#)
  - [Pathways](#)

- **Videos and Webinars.** If you have an idea for a webinar or series of webinars, please follow up with shawn.mcvey@usda.gov.
  - How-to videos on a variety of soil survey topics provide an excellent way to brush up on field and lab skills, or just learn what it is all about:
    - [von Post Scale of Humification](#)
    - [Chemical Response](#)
    - [How to Describe and Sample Fragments in the Field](#)
    - [Using Web Soil Survey playlist](#)
    - [How to Sample Bulk Density in the Field](#)
    - [How to Differentiate and Identify Soil Horizons in the Field](#)
    - [Video for Students of Soil Technology - Measurement and Data Evaluation](#)
    - [How to Use the Field Book for Describing and Sampling Soils](#)
    - [Virtual Tour of the Kellogg Laboratory](#)
    - [1991 Newhall Simulation Model Run](#)
    - [Water Movement in Soil](#)
    - [Particle-Size Analysis by Hydrometer](#)

- **Soil Survey Webinars and PowerPoints (100’s Available)**
    - **Soil Business Systems**
      - Digital Soil Mapping Webinar Series
      - Using R Powered Shiny Apps to Accelerate Soil Data Analysis
    - **Soil Quality and Ecosystems**
      - Soil Health Conservation Webinars
      - O Horizons in Forest Soils
    - **Soil Survey Interpretations**
      - Soil Vulnerability Index for Cropland
Soil Health Interpretations

- Soil Survey Research and Laboratory
  - Rapid Carbon Assessment
  - Soil Spectral Inference
- Soil Survey Standards
  - Soil Survey Manual
  - Training Resources
- Technical Soil Services
  - TSS Planning and Reporting
  - Working with the NSSC
- Other Videos of Interest
  - Coastal Zone Soil Survey
  - Effective Science Communication
  - NSSC YouTube Channel available at: https://www.youtube.com/user/nrcsnssc
  - S&T Training Library (Conservation Webinar Portal) Available at: http://conservationwebinars.net/
  - Hundreds of on-demand webinars and weekly live sessions available with verification certificates available for Continuing Education Units (CEUs) and other professional society/conservation planner certification credit

- NASIS Training Materials
  - NASIS Training Videos Available at https://www.youtube.com/channel/UCdHAmL4woeul8xdUHfnKw

- Job Aids (something that can be used on the job to improve performance)
  - Classification
  - Correlation
  - GIS and Digital Soil Mapping for Soil Survey
  - Investigations
  - Operations & Management
  - Photography
  - Promoting the Soil Survey
  - Soil Databases, General
  - Soil Databases, NASIS
  - Soil Survey Graphics
  - Technical Soil Services, Education
  - Technical Soil Services, General
  - Technical Writing
  - Other Job Aids

- On-The-Job (OJT) Modules (100's Available) Includes instructions for adding completion to AgLearn. Available at https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/edu/ncss/?cid=nrcs142p2_054325

  - **Policy and Procedure**
    - National Soil Survey Handbook
    - Technical Notes - specific technical subjects for soil scientists.
      - Soil Survey Technical Notes
      - Hydric Soils Technical Notes
      - Soil Quality Technical Notes
      - Soil Quality - Agronomy Technical Notes
      - Soil Quality - Urban Technical Notes
      - Soil Quality - Soil Biology Technical Notes

  - **Classification**
    - Soil Taxonomy - principal reference to soil classification.
    - Keys to Soil Taxonomy - taxonomic keys for field classification.
    - Guide to Pronouncing Taxonomic Terms
    - Part 614 National Soil Survey Handbook

  - **Soil Geography**
    - Land Resource Regions and Major Land Resource Areas of the United States, the Caribbean, and the Pacific Basin (Ag Handbook 296)

  - **Field Guides**
    - Field Book for Describing and Sampling Soils
    - Field Guide to Classify Biological Soil Crusts for Ecological Site Evaluation
    - Field Indicators of Hydric Soils, version 8.2

  - **Soil Survey Office Laboratory References**
    - Soil Survey Field and Laboratory Methods Manual (SSIR 51), version 2.0
      - Particle-size analysis by hydrometer data entry forms
- Material Safety Data Sheets (MSDS) and recommended chemical disposal procedure
  - Laboratory Methods and Information
    - Lab Methods Manual (SSIR 42)
    - Soil Survey Laboratory Information Manual (SSIR 45)
    - A Routine Laboratory Method to Determine Phosphorus Availability, Capacity, and Release Characteristics for Soils (SSIR 55)
    - Testing Methods for Phosphorus and Organic Matter
    - Soil Sample Submission Protocol for the KSSL
      - Soil Sample Submission Worksheets
  - Geomorphic Description System
    - Geomorphic Description System, version 5.0
    - Glossary of Landform and Geologic Terms (Part 629 of the National Soil Survey Handbook)
  - Geophysical Investigations
    - Trip Reports (Jim Doolittle)
    - Trip Reports (Wes Tuttle)
  - Installing Monitoring Wells in Soils
  - Forms
  - National Soil Information System (NASIS)
  - Land Use (Title 310)
    - National Land Evaluation and Site Assessment (LESA) Handbook
      - Land Evaluation (LE) part of LESA
        - Red Tart Cherry Site Inventory for Grand Traverse County, Michigan (Unique Farmland Designations)
      - Site Assessment (SA) part of LESA
  - Other References
    - Glossaries of Soil-Related Terms

Online Meeting Resources in AgLearn
- Adobe Connect Training
- Microsoft Teams Training
- Learning Microsoft Teams for Education (by Lynda.com)
- Microsoft Teams Bot Development (by Lynda.com)
- Microsoft Teams Tips and Tricks (by Lynda.com)
- Microsoft Teams Quick Tips (by Lynda.com)
- Learning Microsoft Teams for Firstline Workers (by Lynda.com)
- **Microsoft Teams** (Skillsoft/Percipio)
- Microsoft Office 365 Teams: Sign-in and Setup
- Microsoft Office 365 Teams: Teams and Channels
- Microsoft Office 365 Teams: Conversation Tools
- Microsoft Office 365 Teams: Creating, Finding, and Sharing Information
- Microsoft Office 365 Teams: Call and Meeting Tools
- Working Remotely During COVID-19. Available in AgLearn

**Coming Soon Virtual Resources for Training**

- Udemy Courses in AgLearn. Udemy is one of the biggest providers of online video courses and new additions are published every month.
- Soil Property Modules in AgLearn. A series of 24 standalone soil property modules that can also be taken in sequence. Soil texture, cation-exchange capacity, infiltration, and hydrologic soil group are some of the subjects.