

Exhibit 2: Learning Path Information

 Open me First!!!!!!

| Path/Area Number | Learning Path Name | Item ID | Item Description | Existing Training | Develop Training | Prerequisites or Concurrent training |
|------------------|----------------------------------|--------------------|--|--|---|--------------------------------------|
| I | Soil Application | 1a,b,c | Delivery of products; 1a-Web Soil Survey, 1b-Soil Data Mart, 1c-Soil Data Viewer | WSS-Fact sheet, user guides (NM, ND, KS, and others) SDV- instructor LED course, manual. | online course for SDV for users outside agency | |
| I | Soil Application | 2 | Customizing interpretations and reports. State function to maintain custom SDW, SDM reports/ interps. | guidelines from NSSC | | |
| I | Soil Application | 3 | Perform SDM interpretations and queries (NASIS type functions for public data)- spring 07, (quarterly issues of wide geographic area spatial data pending per Sharon Waltman) | None | Paul Finnell- developing materials | |
| I | Soil Application | Executive Overview | aggregate perspective generalization of important items with screen shots, include job sheets or job aids and reference materials. No more than a couple paragraphs. Information on the role, expectations and relevance. It can also be a powerpoint presentation. It could be used as a course introduction. | None | Develop job aid. Develop companion ppt. By end of 3rd Quarter, FY07 | |
| II | Geospatial Database Fundamentals | 1 | ESRI: Understanding Map Projections and Coordinate Systems | Virtual Campus: http://training.esri.com/acb2000/showdetl.cfm?DID=6&Product_ID=697 | | |

| | | | | | | |
|-----|----------------------------------|--------------------|--|--|---|---|
| II | Geospatial Database Fundamentals | 2 | ESRI: Learning ArcGIS Desktop, or NCGC: Introduction to ArcGIS 1 for USDA SCA | Virtual Campus: http://training.esri.com/acb2000/showdetl.cfm?DID=6&Product_ID=870 , or NCGC: ftp://ftp-fc.sc.egov.usda.gov/NCGC/products/gistraining/brochure/arcgis-course-desc.pdf | Translate Dwain Daniel's workbook adapted for soils survey to be used with online course on ESSRI Virtual Campus | ESRI: Understanding Map Projections and Coordinate Systems |
| II | Geospatial Database Fundamentals | 3 | NEDC: Digital Soil Survey Mapping and Updating (000144) | NEDC: http://www.nedc.nrcs.usda.gov/catalog/soildigit.html | develop a job aid to find materials for this course. Also, rename the course to reflect managing and editing aspects versus mapping | ESRI: Understanding Map Projections and Coordinate Systems; ESRI: Learning ArcGIS Desktop, or NCGC: Introduction to ArcGIS 1 for USDA SCA |
| II | Geospatial Database Fundamentals | Executive Overview | aggregate perspective generalization of important items with screen shots, include job sheets or job aids and reference materials. No more than a couple paragraphs. Information on the role, expectations and relevance. It can also be a powerpoint presentation. It could be used as a course introduction. | None | Develop job aid. Develop companion ppt. | |
| III | Remote Sensing | 1 | NEDC: Basic Image Interpretation | Old "analog" course; More recent classroom "analog" course specific to Remote Sensing Lab needs. | online: in development | |
| III | Remote Sensing | 2 | NEDC: Introduction to Digital Remote Sensing | Same course exists but without hands-on application of software | Classroom: in development | NEDC: Basic Image Interpretation |

| | | | | | | |
|-----|---------------------|--------------------|--|--|--|---|
| III | Remote Sensing | 3 | NEDC: Remote Sensing for Soil Survey Applications | None | Classroom: in development | NEDC: Basic Image Interpretation; NEDC: Introduction to Digital Remote Sensing or tutorial if already taken the previous demo only course. |
| III | Remote Sensing | Executive Overview | aggregate perspective generalization of important items with screen shots, include job sheets or job aids and reference materials. No more than a couple paragraphs. Information on the role, expectations and relevance. It can also be a powerpoint presentation. It could be used as a course introduction. | None | Develop job aid. Develop companion ppt. | |
| IV | Geospatial Analysis | 1 | ESRI: Learning ArcGIS 9 Spatial Analyst, or NCGC: Working with ArcGIS Spatial Analyst 9 | ESRI Virtual Campus: http://training.esri.com/acb2000/showdetl.cfm?DID=6&Product_ID=812 , or NCGC: ftp://ftp-fc.sc.egov.usda.gov/NCGC/products/gistraining/brochure/spatialanalyst9-course-desc.pdf | Translate Dwain Daniel's workbook adapted for soils survey to be used with online course on ESRI Virtual Campus | |
| IV | Geospatial Analysis | 2 | Correlation Decision support system: modify existing soil correlation and MLRA correlation & Management courses to include GIS tools to perform correlation decisions. | None | Develop modules, one each for the Soil Correlation Course (map unit level) and Correlation & Management of MLRA Soil Surveys (MLRA/Legend level) | |

| | | | | | | |
|----|---------------------|--------------------|--|--|--|--|
| IV | Geospatial Analysis | 3 | Storing raster data in ArcSDE geodatabase. Working with Rasters in ArcGIS 9 | ESRI Virtual Campus: http://training.esri.com/acb2000/showdetl.cfm?DID=6&Product_ID=822 | job aid- TBD, develop toolbars?? | |
| IV | Geospatial Analysis | 4 | Predictive soil and ecosite properties. The idea of "Digital Soil Survey Mapping" | None | training materials to be developed, as agency promotes using the concept and adopts one or more GIS soil mapping packages (SoLIM, PURC, etc. are examples) | |
| IV | Geospatial Analysis | Executive Overview | aggregate perspective generalization of important items with screen shots, include job sheets or job aids and reference materials. No more than a couple paragraphs. Information on the role, expectations and relevance. It can also be a powerpoint presentation. It could be used as a course introduction. | None | Develop job aid. Develop companion ppt. | |
| V | Field Techniques | A | Global Positioning Systems. Use of, interface with ArcGIS for downloads in both directions, interface with Pedon PC | job aid, search for existing material | Develop if needed | |
| V | Field Techniques | B | Mobile Computing. Tablets, PDAs, Laptops...whatever the Agency is promoting use of in the mobile world. | job aid, search for existing material | Develop if needed | |
| V | Field Techniques | C | Pedon PC. Capturing point data (site and soil property), methods | job aid, search for existing material | Develop if needed | |
| V | Field Techniques | Executive Overview | aggregate perspective generalization of important items with screen shots, include job sheets or job aids and reference materials. No more than a couple paragraphs. Information on the role, expectations and relevance. It can also be a powerpoint presentation. It could be used as a course introduction. | None | Develop job aid. Develop companion ppt. | |

| | | | | | | |
|----|-------------------------|--------------------|---|---|--|--|
| VI | Database Administration | A | populate metadata information, add policy. Expand on basics that are presented in the DSS Mapping and Updating class. ESRI: Creating and Maintaining Metadata Using ArcGIS Desktop | ESRI Virtual Campus: http://training.esri.com/acb2000/showdetl.cfm?DID=6&Product_ID=839 | job aids, Creating and maintaining metadata using ArcGis desktop; Metada tips and tricks- both are on-line ESRI courses, look for other agency tools such as FGDC or Park Service. USDA Metadata tool. Seek for job aids to populate metadata in NASIS | |
| VI | Database Administration | B | ESRI-Creating, Editing, and Managing Geodatabases for ArcGIS 9. Personal geodatabase 9.1 Target group SSO, MO and SO after 9.2 is available. | ESRI Virtual Campus: http://training.esri.com/acb2000/showdetl.cfm?DID=6&Product_ID=803- ESRI "White Papers" | job aids for clarifying whats available thru ESRI papers or articles etc. | |
| VI | Database Administration | C | At ArcGIS 9.2, ArcSDE technology has been bundled with ArcGIS Server. ESRI: Storing Raster Data in an ArcSDE Geodatabase (for ArcEditor and ArcInfo) | ESRI Virual Campus: http://training.esri.com/acb2000/showdetl.cfm?DID=6&Product_ID=738 | | |
| VI | Database Administration | D | ESRI- effective develop and manage soil survey data using GIS. Using Enterprise | ESRI-classroom Target group- Centers | | |
| VI | Database Administration | Executive Overview | aggregate perspective generalization of importants items with screen shots, include job sheets or job aids and reference materials. No more than a couple paragraphs. Information on the role, expectations and relevance. It can also be a powerpoint presentation. It could be used as a course introduction. | None | Develop job aid. Develop companion ppt. | |

| | | | | | | |
|------|--------------------|--------------------|--|---|--|---|
| VII | Custom Programming | A | ESRI: Geoprocessing Using ModelBuilder | ESRI Virtual Campus: http://training.esri.com/acb2000/showdetl.cfm?DID=6&Product_ID=844 Jackie Stager (WVU) has a training package developed and available) | Look for existing job aids. | ESRI: Learning ArcGIS 9 Spatial Analyst, or NCGC: Working with ArcGIS Spatial Analyst 9 |
| VII | Custom Programming | B | Gain understanding of structured query Language for SS relational database manager | on-line Microsoft?? local short course or SQL for Dummies | | |
| VII | Custom Programming | C | Gain understanding of structured query Language for SS relational database manager (Enterprise) | on-line Microsoft?? local short course or SQL for Dummies | | |
| VII | Custom Programming | D | Virtual Basic programming. ESRI: Introduction to Visual Basic 6 | ESRI Virtual Campus: http://training.esri.com/acb2000/showdetl.cfm?DID=6&Product_ID=682 | | |
| VII | Custom Programming | Executive Overview | aggregate perspective generalization of important items with screen shots, include job sheets or job aids and reference materials. No more than a couple paragraphs. Information on the role, expectations and relevance. It can also be a powerpoint presentation. It could be used as a course introduction. | None | Develop job aid. Develop companion ppt. | |
| VIII | Specializations | A | Advanced model building. ESRI: | on-line and classroom | | |
| VIII | Specializations | B | Python scripting. ESRI: | on-line and classroom | | |
| VIII | Specializations | C | soil resource toolkit developing Point data collection, data acquisition and integration, Digital Editing, data analysis, check out/check in | SRITB tool box | Users guide being develop | |
| VIII | Specializations | D | Advanced geoprocessing (spatial joins, relates, etc.) | | develop job aids. It can be part of the correlation training, build toolboxes to do the job. | |

| | | | | | | |
|------|-----------------|---|--|---|--|--|
| VIII | Specializations | E | ESRI: Arc Hydro: GIS for Water Resources | ESRI 3 day classroom: http://training.esri.com/gateway/index.cfm?fa=catalog.courseDetail&CourseID=50058652_9 . X | | |
| VIII | Specializations | F | ESRI: Introduction to ArcGIS 9 Geostatistical Analyst | ESRI Virtual Campus: http://training.esri.com/acb2000/showdetl.cfm?DID=6&Product_ID=808 | look for university classes, job aids | |
| VIII | Specializations | G | Terrain Analyses and Automated Landscape classification | | Sharon will research and provide feedback to Marc. Ecological landunits model from Nature Conservancy, gather existing tools including access to them. | |
| VIII | Specializations | H | Application of remote sensing for plant communities | job aids, articles | develop in the long term a class from all job aids | |
| VIII | Specializations | I | Climate Analyses for soil climate models | | find job aids- contact Sharon Waltman, Tim Prescott and Lynn Loomis | |
| VIII | Specializations | J | ESRI: Introduction to Job Tracking for ArcGIS (JTX) | ESRI seminar: http://training.esri.com/acb2000/showdetl.cfm?DID=6&Product_ID=853 | | |
| VIII | Specializations | K | Visualization, publication and presentation documentation. (DMF) (Mapbook....) | Wisconsin Kent Pena | | |
| VIII | Specializations | L | ESRI | classroom | | |

| | | | | | | |
|------|-------------------|--------------------|--|------|---|--|
| VIII | Specializations | Executive Overview | aggregate perspective generalization of important items with screen shots, include job sheets or job aids and reference materials. No more than a couple paragraphs. Information on the role, expectations and relevance. It can also be a powerpoint presentation. It could be used as a course introduction. | None | Develop job aid. Develop companion ppt. | |
| IX | Refresher Courses | As Appropriate | | | | |