

**Montana LOCAL TECHNICAL ASSISTANCE PROGRAM
SOFTWARE LIST 2008**

Descriptions

Revised 7/7/2008

AVAILABLE SOFTWARE

BRIDGES

Construction ***001-049***

SW001 Information on Modern Timber Bridges in the United States (CD-ROM)

SW002 Massachusetts Bridge Technology Workshop (*D*)

SW005 HPM Training (High Performance Materials) – FHWA Resource Center,
June 2006

This 2-CD set contains powerpoint presentations from five HPM seminars hosted by Oregon DOT in February and March 2006. This training covers areas such as bridge management and inspection, bridge security, structural design, high performance bridge materials and accelerated bridge construction/prefabricated bridge elements and systems.

Maintenance ***050-099***

EQUIPMENT

Maintenance ***100-149***

Operation ***150-199***

SW150 Municipal Equipment Mgmt System (MEMS) Version 1.0 (CD-ROM)

SW151 Motor grader Operation (CD-I)

SW160 Walk 'n' Roll Packer/Roller

A budget-saving tool for better roads with less road maintenance.

ROADS

Construction ***200-299***

SW200 Waste Byproducts in Construction (CD-ROM)

SW201 I-15 Corridor Reconstruction Project, UDOT (CD-ROM)

SW202 SWEET's CD Fall 1999 (CD-ROM)

SW203 Systems Planning interactive Library and User's Handbook for the
Development of the Florida Interstate Highway System (*D*)

SW210 EZ Road TempRamps

EZ Road TempRamps are a safer, more cost-effective alternative to asphalt or cold-patch temporary ramps at milled butt joints, bridges, and end-of-day joints.

SW214 A Policy on Geometric Design of Highways and Streets (2004)

- This single-user CD-ROM of the fifth edition of AASHTO's "Green Book"

contains the latest design practices in universal use as the standard for highway geometric design and has been updated to reflect the latest research on super elevation and side friction factors as presented in NCHRP Report 439. New exhibits in Chapter 3 will help designers to quickly and accurately determine the side friction factor used for horizontal curve design, the super elevation rates for various curve radii, and the minimum radii with normal crown for each of the five maximum super elevation rates. (AASHTO 2004)

- SW220 **Introduction to the Inspection of Ground Anchors and Soil Nails (2002)**
This CD is a cooperative effort by the CTIP (Coordination Federal Lands Highway Technology Implementation Program) introducing through video clips how to inspect ground anchors and soil nails. (CTIP 2002)
- SW221 **Inspection of Ground Anchors (2002)**
This two-disk program was developed by the Coordinated Federal Lands Highway Technology Implementation Program. Disk 1 covers the preconstruction phase of ground anchors through video clips and diagrams. Disk 2 explains covers the construction phase using ground anchors through various media. (CTIP 2004)
- SW222 **Application of Ground Anchors and Soil Nails in Roadway construction (FHWA April 2007)**
Three training CD's
- SW225 **Highway Materials Engineering Soils – NHI, January 2002**
This CD from National Highway Institute Course Number 131023A for Chapters 9-14. Coverage includes materials control and acceptance-quality assurance; soil and foundations; steels, welding, and coatings; aggregates and unbound bases; asphalt materials and paving mixtures; and Portland Cement Concrete.
- SW240 **Road Engineering and construction Practices for cold Regions (FHWA April 2007)**
Two training CD's

***Asphalt & Pavement* 300-399**

- SW300 ND T2 Center Rdwy. Inv. Prog. For Windows (3.5" Disk)
- SW301 Surface Thickness Program (3.5" Disk) SW109
- SW302 Road Surface Management System (RSMS) Version 3.0 (3.5" Disk)
- SW304 Pavement Recycling Guidelines for State and Local Gov. (CD-ROM)
- SW305 DataPave Version 2.0 (CD-ROM)
- SW306 PaveCool: Asphalt Pavement Cooling Tool (3.5" Disk)
- SW307 Pavement Preservation: The Preventive Maintenance Concept (CD-ROM)
- SW308 What If Roads Could Last a Lifetime?
- SW309 Pavement Preservation State of the Practice
- SW310 Performance-Related Specifications for PCC Pavements (CD-ROM)
- SW311 A Guide for Hot Mix Asphalt Pavement
- SW312 Hot Mix Asphalt for the Undergraduate (CD-ROM)
- SW313 Asphalt Management Maintenance
- SW315 **Virtual Superpave Laboratory**
This CD is a learning tool for training engineering students, practicing engineers, and technicians in the laboratory procedures and data analysis of Hot Mix Asphalt (HMA) testing. This interactive CD will increase the expertise of agency, consultant, and contractor personnel responsible for making decisions concerning HMA mix design, quality control, and acceptance. Users will learn about the theoretical concepts behind the tests and will be able to conduct hands-on manipulation of the data. VSL provides a basic level of understanding of Superpave for all who specify, design, and build asphalt pavements. (National Asphalt

- Pavement Association 2005)
- SW316 Pavement Preservation Strategy (ISSA 2005)
- SW317 Pavement Preservation Toolbox: Strategies for Preventive Maintenance Programs (FHWA June 2005)
- SW320 NCHRP - Recommended Use of Reclaimed Asphalt Pavement in the Superpave Mix Design Method
Research developed guidelines for incorporating reclaimed asphalt pavement (RAP) in the Superpave system and prepare a manual that can be used by laboratory and field technicians. (Transportation Research Board 2004) For more information go to:
<http://www4.trb.org/trb/crp.nsf/e7bcd526f5af4a2c8525672f006245fa/efd647c149b80c3b>
- SW330 Various Pavement Courses from NHI (Package)
The following list identifies each CD by the NHI Course Number with the title:
1. (No Number) Pavement Distress Identification: All Materials (7/1997)
 2. (No Number) Pavement Management Systems: All Materials (9/1998)
 3. (No Number) Techniques for Pavement Rehabilitation: All Materials (10/1998)
 4. 13129 AASHTO Pavement Overlay Design: Instructor's Guide, Reference Manuals, Visual Aids (March 1999)
 5. 13153 Superpave Fundamentals: Instructor Guide, Participant Guide, Visual Aids, Exercises (April 2000)
 6. 13153 Superpave Fundamentals: Reference Manual (June 2000)
 7. 130078 A Fracture Critical Inspection Techniques for Steel Bridges: Participant's Workbook (August 2003)
 8. 131023 Highway Materials Engineering (Nov 2002)
 9. 131032 Hot Mix Asphalt Construction: All Materials (July 2002)
 10. 131044 Hot Mix Asphalt Production Facilities: Instructor guide, Participant Workbook, Reference Manual, Powerpoint Presentation (July 2002)
 11. 131050 Asphalt Pavement Recycling Technologies: (Two CD's) CD No. 1 – Instructor Manual, Participant Workbook; CD No. 2 – Jeopardy Workshop, Double Jeopardy Workbook (July 2002)
 12. 131058 Cement Preservation: Selecting Pavement for Preventive Maintenance: Instructor Guide, Participant Workbook, Visual Aids (Sept 2001)
 13. 131060 Concrete Pavement Design Details and Construction Practices (Dec 2001)
 14. 131103 Pavement Preservation: Design and Construction of Quality Preventive Maintenance Treatments: PM3 Updated Final Files (Nov 2004)
 15. 131104 Pavement Preservation: Integrating Pavement Preservation Practices and Pavement Management: All Materials (Jan 2004)
 16. 131105 Analysis of PMS Data Engineering Applications: All Materials (Nov 2002)
 17. 134006 Highway/Utility Issues: All Materials (Aug 2001)
 18. 134058 Alternative Contracting: Instructor Guide (4/2004)
 19. 134058 Alternative Contracting: Participant Workbook (9/2004)
 20. 142054 Design and Implementation of Erosion and Sediment Control: Participant Workbook (4/2005)
 21. 152069 Training Program for Metropolitan Transportation Planning: Reference manual (1/2002)
- SW340 Managing Pavement Edge Dropoffs to improve Safety and Reduce Tort Liability (FHWA) Rec'd 3/2006
This CD multi-media record of the proceedings, presentations and documentation of 2/11/2004 George and 1/10/2005 Omni Shoreham workshops covered pavement edge drop-off issues and treatment options available to reduce associated crashes. Contains workshop presentations defining crash, tort liability and research issues as

well as presentations on practical solutions by highway agencies in Texas, Kansas, Georgia, Idaho, New York and Gwinnett County Georgia. Also includes a presentation on the potential problem caused by shoulder wedge buildup due to multiple overlays. (FHWA rec'd 3/2006)

SW350 Good Practices: Incorporating Safety into Resurfacing and Restoration Projects (FHWA December 2006)

Concrete 400-449

SW400 Rubblization

SW401 High Performance Concrete Net Conference (3/27/03 FHWA)

SW402 High Performance Concrete: Structural Designers' Guide (2005)

The main objective of this Guide is to provide a source of information to structural designers for the design and construction of highway bridges and related structures using HPC (High Performance Concrete). It can also be found at <http://knowledge.fhwa.dot.gov/hpc> and go to What's New. It will also be useful to materials and construction engineers, contractors, researchers and industry. (FHWA 3/2005)

SW403 High-Performance Concrete (HPC)/ Deck Overlay Seminar (FHWA 2006)

A collection of presentations regarding Quality Control/Quality Assurance and performance-related specifications; permeability test procedure experiences, benefits, and limitations; and experiences with certain bridge deck overlay materials.

SW404 High-Performance Concrete (HPC) Implementation Survey Results (FHWA 2007)

Documents estimates of crash reduction that might be expected if a specific countermeasure or group of countermeasures is implemented with respect to intersection crashes.

Gravel 450-499

SW450 Gravel Roads-Maintenance and Design Manual (SD LTAP)

Weed Control 500-549

Fabrics & Textiles 550-599

SW550 Geosynthetics: Use in Streets and Highways (CD-ROM)

SW551 Introduction to Geosynthetics in Transportation (GMA 2007)

Drainage, Culvert, Erosion, Watersheds 600-699

SW600 Culvert Installation and Maintenance Workshop (North Dakota)

SW601 FishXing

SW602 Culvert Management System (CMS)

SW603 Your Culvert Lining Solution

SW610 Endangered Species Act – Build Smart

This two-disk program was developed by the Coordinated Federal Lands Highway Technology Implementation Program and is a product of the Department of Civil Engineering and Instruction and Research Services at Portland State University. Disk 1 covers the introduction to the ESA, reviews independent duties of an agency's responsibilities. Disk 2 explains constructing to ESA, two case histories, and additional resources for inspectors. (CFLAHTIP 2004)

SW615 Erosion Control: Handbook for Local Roads (2003)

The handbook, instructional guide, and materials were developed to provide a useful

3M products and expertise help agencies develop on-target SRTS funding requests for school zone safety-improvement projects.

- SW843 School Zone Safety—Montana (MT LTAP & MDT 1995)
SW850 Pedestrian Facility Design – NHI – August 2002
This NHI Course Number 142045A was developed to provide information and application opportunities for those involved in the design of pedestrian facilities. The ADA requires newly construed and altered sidewalks to be accessible and usable for people with disabilities, and accessibility improvements need to be implemented for existing facilities. Instruction centers on two case examples involving corridor design and intersection design issues.
- SW851 Bicycle Facility Design – NHI May 2002
NHI Course Number 142046A assists planners and designers in learning how to apply the existing standards and how to deal with other technical issues involved.
- SW852 Bicycle Safer Journey, Interactive Bicyclist Safety Awareness (FHWA)
SW853 Safer Journey-Interactive Pedestrian Awareness(FHWA)
SW854 Community Impact Assessment Workshop (10/2001 FHWA)
SW855 Safety Training Resources Guide – Version 1.0
The objective of this CD is to perform searches on safety traffic topics by selecting different search categories e.g. (Titles, Categories, Classification, State, Level of Training, Primary Source, Instructor, and Contact). (US DOT/FHWA)

Traffic Control and Work Zones 900-999

- SW900 Work Zone Traffic Control Guidelines (CD-ROM)
SW901 Advanced Traffic Analysis (CD-ROM)
SW902 Introduction to Work Zone Basics and Flagging (CD-ROM)
SW903 Work Zone Operations: Improving Mobility and Safety on Both Sides of the Barrel. Best Practices Guidebook (Supplement) *Free copies while available
SW904 Work Zone Operations: Improving Mobility and Safety on Both Sides of the Barrel (CD-ROM)
SW905 Compendium of Work Zone Research, Development, and Technology Transfer Projects, 1997 to 2002
SW906 Work Zone Safety – for Roadway Maintenance Operations – “RoadSafe”
SW907 RC Flagger (CD-ROM)
SW910 Roadside Safety Analysis Program 2003, NCHRP Report 492
SW911 Road Safety Fundamentals – FHWA, March 2006
This CD contains materials for a course which covers: road safety basics, solving traffic safety problems, traffic control devices, roadway design criteria, improving roadside safety, and intersection safety. Included is a field reference guide, instructor’s notes, movie files, presentation, participant’s notebook, and “Road Safety Fundamentals September 2005”. [*Comment 10/2006: General info on training techniques*]
- SW909 Flagging in the Work Zone: Safety in Your Hands (FHWA 11/2005)
SW920 Driver Education Work Zone Awareness Program
This is a true story of a father and son. Too often kids are left alone because of speeding and distracted drivers in work zones. Why should kids suffer because some people continue to ignore work zone speed limits and laws. Please slow down. (Illinois DOT)
<http://www.dot.state.il.us>
- SW930 Manual on Uniform Traffic Control Devices—2003 Edition

- SW935 Work Zone Training Law Enforcement Course (FHWA 2007)
Pocket guide, Instructors guide, participants workbook, ppt training modules, promotional flyer, website links and other essential information.
- SW940 Basic Traffic Control for Utility Operations – A Modular Course. ATSSA 2002
This CD contains seven powerpoint modules covering traffic control for utility operations. [*Comment 10/2006: General info on training techniques*]
- SW941 Basic Traffic Control for Short Duration Activities: A Modular Course (ATSSA 2002)
Provides information on standards and procedures, what protective equipment is necessary and which standards apply to basic traffic control for short duration activities.

Signs and Markings

1000-1999

- SW1000 ND T2 Center Signs for Windows (3.5” Disk)
- SW1001 Sign Inventory & Mgmt System (SIMS) Version 6.0 (3.5” Disk)
- SW1002 Sign Management System (3.5” Disk)
- SW1003 Maintenance of Signs & Sign Supports for Local Roads & Streets (*D*)
- SW1004 Red Light, Green Light
- SW1005 AASHTO 2002 Roadside Design Guide (PP & PP video on CD)
- SW1010 Comprehensive Intersection Resource Library
A compilation of resources about traditional signalized and unsignalized intersections, roundabouts, highway/rail grade crossings, and other nontraditional intersection designs.
(US DOT/FHWA)
- SW1011 Comprehensive Intersection Resource Library – Version 3 – CD (FHWA 2006)
Resources included in this library represent a broad cross section of publications, educational materials and other media published by the Federal Highway Administration and other transportation safety partners. Beyond the initial section with background Information, the library content is organized into five broad categories, including traditional signalized and unsignalized intersections, roundabouts, highway/rail grade crossings, and nontraditional intersection designs such as single-point intersections. The last section provides links to other transportation safety partner web sites for additional information. Please note: some publications on partner web sites are available for purchase only. Purchase information is included in the file, or follow directions to the bookstore on the organization's web site. Amazing amount of resource info!
- SW1025 Driver Understanding of Red Retroreflective Raised Pavement Markers (FHWA November 2006)

Guardrails and Barrier

2000-2031

- SW2010 Guidelines for the Selection of W-Beam Barrier Terminals (FHWA December 2006)
This CD has been prepared to provide information to designers and to construction/maintenance personnel responsible for selecting and properly installing the most appropriate terminal design at any site. In addition to showing the actual crash performance of each terminal type, this CD provides guidance on proper site grading and presents real-world examples of both appropriate and inappropriate installations.

Liability and Risk Management

2032-2047

Mailboxes and Utility Poles

2048-2099

Train Crossings

2100-2199

ADMINISTRATION

Management

2200-2299

- SW2200 Microcomputer Data Management System (MDMS) Version 7.0 (3.5" Disk)
SW2201 MDMS Ver. 5.0 for dBase (3.5" Disk)

Career/Personal Development

2300-2349

- SW2300 Beyond the 7 Habits – Stephen R. Covey (audio cd 2003)
SW2301 The Leader in You – Dale Carnegie & Associates, Inc.(audio cd 1994)
SW2307 The Warrior Within: Part I (audio cd 2004)
This powerful program will inspire you to achieve your very best each day by sharing strategies, stories, and skills that will lift you to the next level of your life. Using a framework of Native American wisdom and based on over a decade of experience, this program has been created to motivate you to get more out of life and career by showing you how to get more out of yourself. (Sound Works)
- SW2308 The Warrior Within: Part II (audio cd 2004)
This continues from Part I above and contains the same powerful program that will inspire you to achieve your very best each day by sharing strategies, stories, and skills that will lift you to the next level of your life. Using a framework of Native American wisdom and based on over a decade of experience, this program has been created to motivate you to get more out of life and career by showing you how to get more out of yourself. (Sound Works)
- SW2320 Core Curriculum Matrix Development
Contains the work competencies for four levels (Level I – IV) of achievement for five disciplines of highway engineering technicians (Materials Competency, Maintenance Competency, Employment Development, Construction, Safety/Work Zone). Also contains a comprehensive library of technician training references, such as what training is offered and where to get the training. Developed by Transportation Curriculum Coordination Council: FHWA, AASHTO, State DOT's, AGC, ACPA, ARTBA, NAPA, NPHQ (National Highway Institute 2005)

Planning

2350-2399

- SW2350 Preparing for the New Millennium 1999 (CD-ROM)
SW2351 LTAP Clearinghouse Yearbook 2002
SW2352 LTAP Clearinghouse Yearbook 2005
SW2353 Basic Guide for GASB-34 – Phase III Local Governments
SW2355 Local Government Environmental Management System (EMS) Toolkit (2005)
This toolkit includes a Windows Media (audio/video file) recording of the webcast called "Environmental Management Systems: A Powerful Tool to Help Local Government Managers and Public Works Directors Minimize Environmental Liability, Increase Efficiency, and Improve Financial Health." There are also individual PowerPoint presentations of each speaker, a number of publications, and Internet links providing more information about EMS. (APWA/ICMA 2005)
- SW2357 LTAP Clearinghouse Yearbook 1993
SW2360 Security and Emergency Response Planning Toolbox for Small Water and Wastewater Systems (RCAP December 2005)
The RCAP Security and Emergency Response Planning Toolbox for Small Water and

Wastewater Systems (the “RCAP Security Toolbox”) consists of five core modules, appendices, and introductory text that relates security and emergency preparedness to best practices of system operation and management. The appendices include resources, a glossary, an emergency notification and contact list, eBulletin subscription forms, and powerpoint training presentations.

Drug and Alcohol

2400-2419

TRIBAL 2450-2399

METRICATION 2450-2479

SW2450 National Hwy Institute Course – Metric (SI) (3.5”Disk)

RULES AND REGULATIONS 2480-2499

SW2480 Montana Public Works Standard Specifications (CD-ROM)

MISCELLANEOUS 2500-2599

SW2502 Rural Challenges and the Applications of Advanced Technology must be a “Community” Investment FHA (CD-ROM)

SW2503 Rural Technology and Transportation Systems 1997 International Conference (CD-ROM)

SW2504 Transportation Research Thesaurus (CD-ROM)

SW2505 Compendium of Papers-Institute of Transportation Engineers 2000 District 6 Annual Meeting (CD-ROM)

SW2506 Transportation Research Board 79th Annual Meeting (CD-ROM)

SW2507 Transportation in the New millennium (CD-ROM)

SW2508 Transportation Research Board 80th Annual Meeting (CD-ROM)

SW2510 TransWrite (Executive Writing Associates 2005)

Writing that works for transportation professionals – DEMO

SW2550 Falun Dafa

CATALOGS 3000-3499

SW3000 Presenting a New Innovation in Driver Safety Training (2004)

This is a demo CD on what FLI Learning Systems, Inc. has to offer. (2004)

SW3001 Humboldt Catalog #7 – Testing Equipment for Asphalt, Concrete & Soil (2004)

SW3002 Humboldt – Roughometer Information (2005)

SW3003 SpectrPave2 – Tensar Earth Technologies, Inc. (2004)

SW3010 Montana Transportation Officials & Engineers Directory (ARTBA 2007)
Excel page with addresses and phone numbers of MDT and Montana-based transportation officials.

ITS/IVHS 3500-3549

SW3500 Intelligent Transportation System Awareness (CD-ROM)

SW3501 A Framework for Integrated Transportation into the 21st Century (CD-ROM)

SW3503 National ITS Architecture
SW3504 Orion-Intelligent Transportation for the Twin Cities (CD-ROM)

All of the listed publications may be borrowed for two weeks and then returned to the Library.
Some publications are free or for a nominal charge upon request.
To order, call or email:

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