BRIDGES

B-012  AESTHETIC BRIDGE RAILS AND GUARDRAILS
FEDERAL HIGHWAY ADMINISTRATION
7:51

This video summarizes the crash testing and special features of concrete bridge rails and guardrails described in the FHWA publication No. SA-91-051.

B-001  BETTER BRIDGE DECKS
MARYLAND STATE HIGHWAY ADMINISTRATION
27:00

This tape describes a six-step inspection program which begins with a preparatory phase. (Review of tape should be of interest to engineers and technicians involved with bridge design and construction as well as to construction management personnel.)

B-017  BRIDGE EVALUATION AND POSTING
FHWA/NORTH CAROLINA STATE UNIVERSITY
36:00

Segment 1: “Bridge Components and Inspection Standards” (10:00) - Basic components of bridges and the National Bridge Inspection Standards (NBIS) requirements.

Segment 2: “Bridge Deficiencies and Deterioration” (6:00) - Various types of deficiencies and deterioration of wood, steel, and concrete.

Segment 3: “Forces and Material Properties Affecting Strength” (6:00) - Forces acting on bridge members and basic engineering mechanics.

Segment 4: “Bridge Posting and Permitting Process” (7:00) - Load posting and overload permit procedures and requirements.

Segment 5: “Bridge Management” (7:00) - Basic requirements of a Bridge Management system as specified in federal regulations.

B-022  BRIDGE INSPECTION
LOUISIANA TRANSPORTATION RESEARCH CENTER
LA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
42:40

This video gives an up-close look at bridge inspection by following a DOTD crew doing their daily inspections. They show how to organize an inspection trip, and then the crew inspects several different kinds of bridges including timber bridges, and a rail car bridge. The typical problems occurring in bridges are discussed and the terminology used to describe these problems is also discussed.
B-010  BRIDGE INSPECTION
OREGON DOT
24:30

Part I - This videotape explains the importance of bridge inspection and discusses bridge inspection techniques and procedures for various types of bridges.

Part II - Basic requirements of inspection of timber bridges.

Part III - Basic requirements of inspection of concrete bridges.

Part IV - Basic requirements of inspection of steel bridges, including trusses.

B-015  BRIDGE MAINTENANCE FOR LOCAL ROAD CREWS
VERMONT LOCAL ROADS
14:20

This video discusses the importance of preventive maintenance on bridges. Eight bridge maintenance practices are recommended.

B-018  BRIDGE PILE CAP REPLACEMENT
OREGON DEPARTMENT OF TRANSPORTATION
13:00

This video shows the procedure for replacing a timber pile cap beneath a concrete surfaced bridge while the bridge remains open to traffic. Replacement of the cap is aided by the use of rollers mounted on brackets that clamp to the cap’s supporting piles.

B-002  CLEANING AND CLEARING OF BRIDGES
INTERNATIONAL ROAD FEDERATION
13:00

This module describes the how and why to clean all types of bridges and their components. Proper equipment and hand tools required to do this job are also presented.

B-003  CONCRETE BRIDGE DECK REPAIR
INTERNATIONAL ROAD REPAIR
18:00

Procedures for permanent repair of partial and full-depth bridge deck holes with Portland cement concrete are detailed in this videotape.

B-011  CONCRETE BRIDGE PROTECTION REPAIR & REHABILITATION
STRATEGIC HIGHWAY RESEARCH PROGRAM (SHRP)
5:15

This videotape describes SHRP’s research in the area of concrete bridge protection repair & rehabilitation.
B-013  CONCRETE BRIDGE RAILINGS, THE MODIFIED THRIE BEAM
GUARDRAIL, CABLE GUARDRAILS
FEDERAL HIGHWAY ADMINISTRATION
40:00

This videotape summarizes the crash testing and special features of concrete bridge railings and guardrails described in the FHWA publications No. SA-91-049, and No. SA-91-050

B-004  HARDWOOD ANYONE?
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
9:00

This videotape reviews the historical use of hardwood as a building material and stresses that as hardwood is accepted more in the lumber industry, it can be used in transportation-related construction such as bridges.

B-014  INTRODUCTION TO BRIDGES
ARKANSAS TECHNOLOGY TRANSFER CENTER
45:00

This video gives a general overview of bridge repair, inspection, and maintenance. Substandard bridge surveys are discussed along with basic techniques for repair.

B-007  INVERSESET BRIDGE HUNTER MOUNTAIN
THE FORT MILLER CO., INC.
10:00

This system consist of precast prestressed concrete bridge deck panels. The system has been used in rural applications in several states.

B-009  MODERN TIMBER BRIDGES: A NEW RETURN FOR OLD ENGLAND
RHODE ISLAND DOT
17:00

This videotape explains the timber bridge demonstration project in the town of Foster, Rhode Island.

B-006  PAGE FROM THE PAST...A BRIDGE TO THE FUTURE, A
USDA FOREST SERVICE
29:26

This video shows the deterioration of the nation's short span bridges and discusses research efforts in preservative wood treatments and stress lamination as well as new design and construction techniques.

B-016  PILE CAP REPLACEMENT ON THE WHITESON BRIDGE
OREGON DEPARTMENT OF TRANSPORTATION
12:30

This video shows the procedure for replacing a timber pile cap beneath a concrete surfaced bridge while the bride remains open to traffic. Replacement of the cap is aided by the use of rollers mounted on brackets that clamp to the cap’s supporting piles.
B-020  PREFABRICATED TIMBER BRIDGE DECK PANELS
    ASHTABULA COUNTY ENGINEER
    9:30
    This video illustrates a relatively low cost method for fabrication of timber decks over steel girders using methods
developed by John Smelen, County Engineer for Ashtabula County, Ohio.

B-019  THE MECHANICAL UNIVERSE
    RESONANCE
    30:00
    This video shows the bridges at the Tacoma Narrows and the bridge nicknamed “Galloping Gurdy”

B-008  TIMBER BRIDGE #2
    PENNSYLVANIA DOT
    27:35
    This video features the first Red Oak, Hardwood Glue-Laminated Highway Bridge in existence. The video follows
the progress of this timber bridge from 'theory to traffic'.

B-005  TIMBER, BUILD BETTER AND SAVE WITH MODERN TIMBER BRIDGES
    FEDERAL HIGHWAY ADMINISTRATION
    22:00
    This video reviews utilization of timber bridges. It shows construction and placement of a stressed wood bridge.
The program encourages local agencies to consider timber bridges as alternatives to concrete and steel.
CONSTRUCTION / MAINTENANCE

C/M-130  A NEW STONE AGE: THE MAKING OF PORTLAND CEMENT
PORTLAND CEMENT ASSOCIATION
10:00

A basic introduction to the cement and concrete industries. Covers how cement is made and its importance as the key ingredient in concrete. Includes step-by-step discussion of the cement-making process and explains concrete’s preeminence as a building material, emphasizing its versatility and quality. Also discusses the role of the cement industry in waste management. Includes a 16-page companion publication of the same title (PA164T).

C/M-109  ANTI-ICING FOR MAINTENANCE PERSONNEL
FEDERAL HIGHWAY ADMINISTRATION
12:45

This video is a presentation of preventive operations of an anti-icing program. Anti-icing is the snow and ice control practice of preventing the formation or development of bonded snow and ice by timely applications of a chemical freezing-point depressant. It provides a maintenance manager with two major capabilities: The capability for maintaining roads in the best conditions possible during a winter storm, and the capability to do so in an efficient manner.

C/M-002  ASH: A NEW ROAD TO LOWER CONSTRUCTION COSTS
GEORGIA DEPARTMENT OF TRANSPORTATION
11:00

The possibilities of ash cement in highway construction is presented. Use of ash cement is demonstrated on GA Route 22. The project identifies four types of roads: cement-treated pond ash, cement-treated fly ash base, subgrade stabilization with fly ash and lime, and traditional aggregate base and select borrow.

C/M-080  ASPHALT CRACK REPAIR
MINNESOTA LOCAL ROAD RESEARCH BOARD
15:06

This video discusses the proper procedures for the repair of asphalt cracks. Different ways to prep a crack are discussed along with the proper procedures for filling and sealing asphalt cracks.

C/M-093  ASPHALT OVERLAYS: THE FOUR Ps
MINNESOTA LOCAL ROAD RESEARCH BOARD
15:28

This video focuses on explaining the philosophy, purpose and benefits of placing an asphalt overlay and is not intended to be a training video. However, the video does briefly present the components and how to's of placing an asphalt overlay.

C/M-104  ASPHALT-PASER PAVEMENT EVALUATION AND RATING
MICHIGAN DEPARTMENT OF TRANSPORTATION
46:00

This video is a presentation of how to evaluate and rate pavements using the Asphalt-PASER manual.

C/M-101  ASPHALT PAVING INSPECTION
This three-part video presentation discusses the procedures to perform prior to paving, such as document and field review; demonstrates the actual paving operation; and addresses common problems associated with asphalt paving.

**C/M-103 ASPHALT ROADWAY REHABILITATION**  
FEDERAL HIGHWAY ADMINISTRATION  
6:00  
This video describes the LTAP training course for local road officials that instructs how to analyze rehabilitation alternatives.

**C/M-003 BASE AND SUB-BASE REPAIR**  
INTERNATIONAL ROAD FEDERATION  
16:00  
Details on correct procedures for the repair of base and sub-base are demonstrated using a nine step procedure. These steps include placing traffic control devices, marking the limits for repair, cutting the pavement, removing all unsuitable material, installing sub-drainage, restoring subgrade and base, replacing pavement surface, cleaning worksite, and removing traffic control devices. Also covered are on-site moisture tests.

**C/M-086 BASE REPAIR**  
UTAH DEPARTMENT OF TRANSPORTATION  
12:00  
This video shows the following steps involved in base repair:  
- determine how much of the damaged pavement should be removed;  
- excavate and completely remove through the base course;  
- determine the causes of the failure and the appropriate solution; and  
- repair the base and reconstruct the pavement.

**C/M-131 BATCHING, MIXING, AND TRANSPORTING READY-MIX CONCRETE**  
PORTLAND CEMENT ASSOCIATION  
27:00  
Provides an understanding of the requirements for production and handling of ready-mixed concrete according to ASTM C94, Standard Specification for Ready-Mixed Concrete. Discusses the manufacturer’s and purchaser’s responsibilities and reviews the provisions of purchase options A, B, or C. Also covers types of mixers, mixing times, uniformity requirements, hauling units, job site control, and basis for acceptance. Instructor’s guide is included.
A videocassette for construction inspection which includes three parts: (1) preliminary checks and equipment; (2) surface preparation and tack coats; and (3) delivery of hot mix paving, compaction, and final product acceptance. The procedures and inspection requirements are in accordance with USDOT standards. Targeted to asphalt paving construction inspectors.

This video is a training course for highway personnel and is comprised of the following six parts:

**TAPE A:** Part 1 (30:00) - OVERVIEW - Part one of this video series deals with basic information about paving and equipment requirements in detail. Part 2 (34:00) - PREPARING TO PAVE - Part two of this video series deals with traffic control, joint and crack repair, and bond coat applications.

**TAPE B:** Part 3 (40:00) - PAVING OPERATIONS - Part three of this series deals with mix delivery, pavement courses, paving procedures, and inspections. Part 4 (31:00) - ROLLING OPERATIONS - Part four of this series deals with pavement joint construction, compaction requirements, rolling principles and procedures, density control, final surface checks, and pavement markings.

**TAPE C:** Part 5 (25:00) - RUBBLIZING - Part five of this video series deals with the preparation steps involved in rubblizing along with a description of the equipment requirements. Part 6 (22:00) - CRUSHING AND SHAPING - Part six of this video series deals with the preparation, material, equipment, and work steps involved in laying new bituminous pavement over existing bituminous pavement. Inspection procedures are discussed along with documentation requirements.

This video presents in clear terms the materials, equipment, traffic control, and work methods for bituminous seal coats. References are made to USDOT's standard specifications; however, ideas are generally applicable anywhere.

This video is designed to teach grader operators to understand basic construction and maintenance concepts of unpaved roads, perform the required daily maintenance on a motor grader, and operate the grader to maintain unpaved roads.
This videotape discusses the advantages of using Portland concrete rather than asphalt for intersection design.

C/M-069A BUILDING OR REPLACING INTERSECTIONS WITH CONCRETE
PORTLAND CEMENT ASSOCIATION
10:00
Benefits of Portland Cement paving at intersections vs. asphalt paving. Initial cost, quality, cost of maintenance, safety considerations.

C/M-102 CHIP SEAL APPLICATION
FEDERAL HIGHWAY ADMINISTRATION
40:00
This three-part video presentation discusses the materials, equipment, and surface preparation requirements for chip seal application; demonstrates proper procedures and operations; and addresses common problems associated with chip seal application.

C/M-108 CHIP SEAL SURFACING
ARKANSAS CENTER FOR TECHNOLOGY TRANSFER
14:20
This videotape discusses chip sealing as a maintenance procedure. The video outlines the steps for the preparation of a road surface and the procedures for chip sealing. The following topics are discussed: 1) determining limits of the work area and setting up warning signs; 2) taking a condition rating and making the required repairs; 3) the equipment needed; 4) spreading asphalt and aggregate; 5) rolling; 6) removal of loose chips; and 7) placing warning signs.

C/M-126 CITY STREETS - THE CONCRETE ADVANTAGE
PORTLAND CEMENT ASSOCIATION
12:52
Life cycle cost and design criteria of concrete streets.

C/M-005 CLEANING OF LINED DITCHES, CULVERTS AND CATCH BASINS
INTERNATIONAL ROAD FEDERATION
16:00
This videotape outlines proper procedures for manual cleaning of lined ditches, culverts and catch basins. The tape also shows how to schedule the cleaning work.

C/M-049 COLD PLANNING REVOLUTION, THE
ASPHALT RECYCLING AND RECLAIMING ASSOCIATION
6:00
This videotape presents an overview of the uses and benefits of cold planning.

C/M-006 COMMON MAINTENANCE PROBLEMS AND CAUSES
This tape reviews common maintenance problems occurring on pavement surfaces, road bases and sub-bases, earth and gravel roads, shoulders, drainage facilities, bridges and roadside areas. The tape also identifies the main causes of most road maintenance problems.

C/M-063 CONCRETE PARKING LOTS: EIGHT STEPS TO QUALITY CONSTRUCTION
PORTLAND CEMENT ASSOCIATION
19:00

This video tape outlines eight steps to quality construction. These steps are 1) Planning 2) Preparation of Subgrade 3) Quality Concrete 4) Start-Up 5) Construction Equipment 6) Placing, Finishing & Curing 7) Jointing and 8) Opening to Traffic.

C/M-063A CONCRETE PARKING LOTS - EIGHT STEPS TO QUALITY CONSTRUCTION
PORTLAND CEMENT ASSOCIATION
10:00

Planning, preparation of subgrade, quality concrete, start up, construction equipment, placing and finishing, jointing for concrete parking lot.

C/M-007 CORRUGATED STEEL PIPE: CULVERT REPAIR METHODS
WYOMING T2 CENTER
15:00

This videotape focuses on the structural capacities, shipping and handling durability, and the feature and benefits of steel pile.

C/M-008 CRACK REPAIR IN ASPHALT PAVEMENT
INTERNATIONAL ROAD FEDERATION
12:00

Repair procedures for linear and alligator cracks from three to twelve millimeter wide are shown. The correct work steps are described in detail.

C/M-009 CRACKING & SEATING OF PCC PAVEMENTS
NEW MEXICO STATE HIGHWAY DEPARTMENT/FHWA
10:00

This videotape was developed to demonstrate cracking and sealing of PCC pavement. It presents a seven-step process which includes evaluation of the pavement, test cracking of the pavement, evaluation of the cracking pattern, cracking the entire pavement, proof rolling of the pavement, repair of weak sections, and overlay pavement.
C/M-127 DIAMOND ADVANTAGE IN HIGHWAY GRINDING, THE
PORTLAND CEMENT ASSOCIATION
10:00

Improving of Portland Cement roadway riding surface by diamond grinding, economic and engineering analysis.

C/M-010 DRAINAGE PIPE INSTALLATION
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
18:00

This tape emphasizes proper compaction techniques. It includes an outline of the planning process which should be followed when installing drainage pipe, a review of excavation, placing the pipe, back filling, and a lesson plan for determining slope and grade.

C/M-052 DUST BUSTERS
DUST BUSTERS
11:00

This promotional videotape introduces dust bond, a chemical agent used to bind dust to unpaved roads to create a tough, cohesive surface.

C/M-051 DUST CONTROL
DOW CHEMICAL COMPANY, 1989
16:00

This promotional videotape by Dow chemical company introduces liquid Dow calcium chloride, a substance used to control dust on unpaved roads effectively and efficiently.

C/M-059 EDGE RUT REPAIR AND GRADE GRAVEL SHOULDERS
UTAH DOT
12:00

This video describes the procedure to take when repairing edge ruts and grade gravel shoulders.

C/M-011 EVERYONE PAYS FOR POTHOLES
NEW YORK STATE COLLEGE OF AGRICULTURE AND LIFE SCIENCES
27:00

This videotape calls attention to the problems of road deterioration and motivates the audience to apply solutions.

C/M-012 FABRIC FORMS FOR EROSION CONTROL
OKLAHOMA DEPARTMENT OF TRANSPORTATION
15:00

This videotape reviews experimental ditch lining installation using grout-filled woven fabric. The parts of the experiment are nylon versus polypropylene fabrics and the use of fly ash to replace portions of Portland cement.

C/M-129 FIT TO BE TIED: RETROFITTING PCC PAVEMENT WITH DOWEL BARS
PORTLAND CEMENT ASSOCIATION
52:00
Rehabilitating existing Portland Cement plain jointed pavement in conjunction with grinding to improve.

C/M-013  FLY ASH MODIFIED SUBGRADE  
OKLAHOMA DEPARTMENT OF TRANSPORTATION  
15:00

This videotape reviews modification of the subgrade with fly ash to stabilize the soil and provide additional strength in road construction. In addition, it demonstrates a research project performed on modified fly ash subgrades to test the theory that fly ash can produce the same strength as lime.

C/M-075  FOREST ROADS AND THE ENVIRONMENT  
USDA FOREST SERVICE  
84:00

Tape 1 - Forest Road and the Environment (18:00) - A visually pleasing overview of how the road and environment interact with each other. This introduction to maintenance of low volume roads highlights several issues that benefit from proper maintenance activities, including water temperature, fish habitat and aggregate surfacing loss.

Tape 2 - Reading the Traveled Way (16:00) - Learn to quickly identify what the road is “saying”. This segment focuses on understanding what the condition of the road is and providing insights on how to proactively avoid costly repairs by properly addressing the road in its current condition.

Tape 3 - Reading Beyond the Traveled Way (16:30) - Properly maintained roads require an understanding of what is happening beyond the road surface. Considering the natural functions before beginning maintenance operations can help minimize significant impacts to the road.

Tape 4 - Smoothing and Reshaping the Traveled Way (17:30) - This video covers the detailed step by step process used for both smoothing and reshaping a road.

Tape 5 - Maintaining the Ditch and Surface Cross Drains (16:00) - This provides comprehensive instructions for correctly constructing and maintaining ditches, culverts, and various surface cross drains. Highlighted in this video are surface cross drains such as rolling dips, earthen water bars and interceptor dips.

C/M-068  FULL DEPTH RECLAMATION  
ASPHALT RECYCLING AND RECLAIMING ASSOCIATION  
12:00

This videotape discusses full depth reclamation which is a reclamation technique in which the full flexible pavement section and a predetermined portion of the underlying materials are uniformly crushed, pulverized or blended resulting in a stabilized base course with further stabilization obtainable through the use of additional additives.
C/M-119  FUNDAMENTALS OF JOINTING FOR VOLUME CHANGES OF CONCRETE  
PORTLAND CEMENT ASSOCIATION  
20:00

Presents the concepts of joint arrangements to relieve stresses in concrete flatwork, pavements, and structures. The tape describes what happens to concrete during its early life of curing and strength gain and under later conditions of varying temperature and moisture. Discusses the three types of joints - contraction, construction, and isolation - and shows examples of different flatwork and building applications. Instructor’s guide includes questions for discussion sessions.

C/M-118  FUNDAMENTALS OF PROPORTIONING CONCRETE MIXTURES  
PORTLAND CEMENT ASSOCIATION  
35:35

Promotes a basic understanding of the principles of concrete mix proportioning. Shows concepts and procedures employed in the laboratory, and with detailed forms, leads a novice through the actual calculations. An instructor’s guide suggests ways to use the tape and provides questions for discussion sessions. Mix proportioning is based on the ACI 211.1 Standard for normal-weight concrete mixtures and PCA’s Design and Control of Concrete Mixtures (EB001T). Includes Proportioning Normal Concrete Mixtures (IS005T).

C/M-116  FUNDAMENTALS OF QUALITY CONCRETE  
PORTLAND CEMENT ASSOCIATION  
17:00

Provides a basic understanding of portland cement concrete technology; material properties of cement, water, fine and coarse aggregates, and admixtures; concrete properties relative to water-cement ratios; durability and air entrainment; the proper curing of concrete; and the five essentials of quality concrete.

C/M-117  FUNDAMENTALS OF REINFORCED AND PRESTRESSED CONCRETE  
PORTLAND CEMENT ASSOCIATION  
22:00

Discusses the theory and concepts of conventionally reinforced and prestressed concrete; the differences between a plain concrete beam and a reinforced concrete beam when loaded to failure; compressive, tensile, shear, and bending stresses with load and deflection diagrams; prestressing concepts - both pretensioning and post-tensioning; types of reinforcing and prestressing steel and their ASTM designations; field examples of placing, splicing, and checking reinforcements.

C/M-060  GEOTEXTILE INSTALLATION ON GRAVEL ROADS  
OKLAHOMA T² CENTER  
43:00

This video demonstrates the use of geotextiles on gravel roads. The video discusses woven and non-woven fabric; different types of gravel to be used; the proper method for dumping rock on a soft road bed; how the fabric should be applied to hillsides with rock outcropping; and how to handle wind in the application of the fabric.

C/M-137  GET THE DIRT - DAMAGE PREVENTION AWARENESS VIDEO
This video covers the four steps in digging: 1) call before you dig, 2) wait the required time, 3) respect the flags, and 4) dig with care.

C/M-046 GUARDRAIL INSTALLATION AND REPAIR
NORTHWEST T² CENTER/ALASKA TECHNOLOGY TRANSFER CENTER
22:00

This videotape presents specific designs of current guardrail as well as a five-step criteria necessary for proper guardrail installation. The video is directed at people responsible for installing and maintaining guardrail along public roads.

C/M-107 GUIDELINES FOR DUST CONTROL ON UNSURFACED ROADS IN ALABAMA
ALABAMA HIGHWAY RESEARCH CENTER
11:00

This video discusses the problem of controlling dust on unpaved roadways. Four basic treatment options are presented.

C/M-111 HARDSURFACING A GRAVEL ROAD USING PRE-MIX ASPHALT
MISSOURI HIGHWAY AND TRANSPORTATION DEPARTMENT, TECHNOLOGY TRANSFER ASSISTANCE PROGRAM
20:00

This video demonstrates the steps involved in hardsurfacing a gravel road using pre-mix asphalt on a county/city road in Missouri.

C/M-100 HAULING HOT MIX ASPHALT
NATIONAL ASPHALT PAVEMENT ASSOCIATION
8:25

This video demonstrates the proper procedures for handling and hauling hot mix asphalt.

C/M-091 HIGHWAY MAINTENANCE OVERVIEW
UTAH DEPARTMENT OF TRANSPORTATION
15:00

This video provides a general overview of the work of a highway maintenance department geared to the highway maintenance worker. It discusses types of roads, safety, traffic control and preventive maintenance.

C/M-044 HOLDING THE ROADS
IOWA STATE UNIVERSITY
20:00

This videotape demonstrates the process of building a stabilized road and shows the advantages of stabilized roads over surface treated roads.

C/M-067 HOT IN PLACE RECYCLING
 ASPHALT RECYCLING AND RECLAIMING ASSOCIATION
This videotape discusses several methods of recycling asphalt pavements. These methods of hot in place recycling include heater scarification, remixing, and repairing.

C/M-061  HOW PAVEMENTS ARE AFFECTED BY AXLE LOADS  
MINNESOTA DOT  
16:00

Illustrates how pavements are affected by axle loads and weather. Implications of weight and arrangement of vehicle axles on roads, streets and highways are presented.

C/M-065  HYDRATED LIME KEY TO IMPROVED ASPHALT PAVEMENTS  
NATIONAL LIME ASSOCIATION  
21:00

This video carries an important message, that the use of hydrated lime in certain asphalt mixes will lead to more durable pavements.

C/M-047  IMPORTANCE OF ROAD DRAINAGE, THE  
VERMONT LOCAL ROADS PROGRAM  
60:00

This videotape is a lecture-type training tape which emphasizes the importance of good roadway drainage. The tape stresses the need for a proper inventory of culverts, drainage areas, and problem areas.

C/M-014  INLAY PATCHING WITH A LARGE COLD PLANER  
OREGON DEPARTMENT OF TRANSPORTATION  
17:00

This videotape identifies different types of road failure such as cracking which is caused by water, wear, etc. It also demonstrates inlay patching using a large cold planer.

C/M-015  INLAY PATCHING WITH A SMALL COLD PLANER  
OREGON DEPARTMENT OF TRANSPORTATION  
13:00

This videotape identifies surface cracking which is a result of base failure. In addition, it demonstrates the use of the small cold planner.

C/-—140  INNOVATIVE PAVEMENT MAINTENANCE TECHNOLOGY  
SHRP  
April 1998  
5:00

This video briefly discusses joint seals and uneven joints. It shows the use of two similar pavement patching devices in adverse conditions and gives product information for them.

C/M-122  INSPECTION AFTER PLACEMENT OF CONCRETE (Postplacement)  
PORTLAND CEMENT ASSOCIATION
Detailed descriptions for proper curing and protecting concrete after completion of placement; removal of forms and restorings during the curing period; and sawing of joints in paving work.

C/M-120 INSPECTION BEFORE PLACEMENT OF CONCRETE (Preplacement)
PORTLAND CEMENT ASSOCIATION
31:00
The general concepts of inspection: communications and preconstruction conferences; excavation and foundation; forming for concreting; placing reinforcement and embedments; proper location and inspection of control and construction joints; and final inspection before placement of concrete. Includes an instructor’s guide.

C/M-121 INSPECTION DURING PLACEMENT OF CONCRETE (Placement)
PORTLAND CEMENT ASSOCIATION
32:45
Describes proper placing techniques; equipment; consolidation of concrete in forms; joint construction; finishing concrete surfaces; and reports and documentation. Includes an instructor’s guide.

C/M-016 KEYED RIP RAP
FEDERAL HIGHWAY ADMINISTRATION/OREGON DOT
12:00
This video demonstrates keyed rip rap installation in western Oregon. It presents specifications and comparisons with conventional rip rap installation.

C/M-017 LIME - THE VERSATILE STABILIZER IN CONSTRUCTION
NATIONAL LIME ASSOCIATION
26:00
This videotape identifies the uses of lime in road construction.

C/M-018 LOW VOLUME ROAD MAINTENANCE
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
13:00
This videotape discusses three types of roads (bituminous surface treated, stabilized, and soil) and maintenance methods for low volume roads with the accent on the similarities in methods among these road types. It also covers maintenance planning and drainage.

C/M-058 MAINTAIN DRAINAGE
UTAH DOT
11:00
This video describes the ways in which to maintain drainage in roadways.

C/M-087 MAINTAIN NON-HARD SURFACES
UTAH DEPARTMENT OF TRANSPORTATION
8:30
This video shows the procedures to follow to keep gravel roads in the best condition possible. It demonstrates how to grade the road, taking into consideration moisture, shape and drainage.

**C/M-019 MAINTAINING GRAVEL ROADS IN ARKANSAS**
UNIVERSITY OF ARKANSAS
29:00

This videotape covers motor grader operation, drainage requirements crown and super elevation, compaction, and other aspects pertaining to maintaining gravel roads as well as discussing the requirements for maintaining an aggregate road surface. In addition, it shows the use of a grader to shape and/or smooth the wearing surface, shoulders and ditches.

**C/M-020 MAINTENANCE MANAGEMENT SYSTEMS**
FEDERAL HIGHWAY ADMINISTRATION
35:00

This videotape is used in conjunction with a maintenance management system manual. The tape presents how to develop, implement, evaluate, administer and insure quality control and how to update a highway/street and right-of-way maintenance and management system.

**C/M-123 MATERIALS FOR CONCRETE: ADMIXTURES**
PORTLAND CEMENT ASSOCIATION
24:00

Discusses the eight major reasons for using admixtures (ingredients other than cement, water, and aggregates) in concrete and the factors that determine the effectiveness of admixtures. Three classifications - air-entraining, chemical, and finely divided admixtures are covered, including storage and batching. Instructor’s guide and printed publication on admixtures are included.

**C/M-021 MECHANICAL CLEANING OF UNLINED DITCHES**
INTERNATIONAL ROAD FEDERATION
20:00

This videotape presents mechanical cleaning procedures with a motor grader and with an excavator. It also provides a review of ditch structure and its function, and selection of type of equipment to be used depending on ditch conditions. Also covered is a replanning the job, setting traffic control, cleaning ditch and adjacent culvert inlets and outfalls, disposing of unwanted material, cleaning the site, inspecting the job, and removing traffic control devices.

**C/M-083 MICROSURFACING**
MINNESOTA DOT
36:00

This video is composed of three sections. Each section presents micro-surfacing from a different manufactures point of view. The chemical makeup of micro-surfaces are discussed in detail along with the advantages of using micro-surfacing.

**C/M-022 MIXED-IN-PLACE SOIL-CEMENT CONSTRUCTION**
PORTLAND CEMENT ASSOCIATION
18:00
This video presents a review of how mixed-in-place soil-cement is made and used, some of the effective methods used to mix the cement, and the machines used.

C/M-094  
MOTORGRADER PREVENTIVE MAINTENANCE  
NEW MEXICO HIGHWAY AND TRANSPORTATION TRAINING ACADEMY  
12:00

This video discusses preventive maintenance techniques that can be used for the highway motorgrader.

C/M-088  
MOWING  
UTAH DEPARTMENT OF TRANSPORTATION  
8:00

This video describes the procedures to follow to eliminate drift lines and keep roadsides safe and attractive. Subjects include setting up traffic control devices; general conditions for mowing and mowing widths; and special situations such as mowing around delineators and debris on the roadside.

C/M-023  
PATCHING UNPAVED ROADS  
INTERNATIONAL ROAD FEDERATION  
12:00

This videotape presents the manual method of maintaining and repairing surface defects such as potholes, ruts, gullies and soft spots on unpaved roads. The module describes an eight-step maintenance procedure to provide a long lasting repair. The proper maintenance practices for preparing the hole, filling it with granular materials, and compacting the material are detailed. A quick test for moisture content is also described.

C/M-025  
PAVEMENT MAINTENANCE - NINE PARTS  
MONTANA STATE UNIVERSITY  
8:25:00

PART 1 - (55:00)  Pavement Maintenance: introduction - this video is the first part of a nine part series which discusses how to make maintenance dollars stretch further as well as better budgeting of funds. It also discusses how to slow deterioration of asphalt roadways and rehabilitation techniques.  
PART 2 - (55:00)  - Pavement Maintenance - this video discusses pavement and asphalt techniques as well as the technology of pavements.  
PART 3 - (55:00)  - Pavement Management System - this tape discusses pavement maintenance rehabilitation as well as pavement management techniques.  
PART 4 - (55:00)  - Pavement Maintenance Patching and Crack Filling - this tape discusses the pavement maintenance rehabilitation techniques of patching and crack filling.  
PART 5 - Rigid Pavement Maintenance - this tape shows methods and different ways to maintain a concrete or asphalt road.  
PART 6 - Surface Sealing - Seal Coats  
PART 7 - Rehabilitation Options & Cost Analysis  
PART 8 - Recycling Procedures  
PART 9 - Specialty Maintenance Products

C/M-043  
PAVEMENT STRUCTURE REPAIR TECHNIQUES - 2 PARTS  
NORTH CAROLINA INSTITUTE OF TRANSPORTATION RESEARCH AND EDUCATION  
2:11:00

PART 1 - (1:27:00)  - This videotape details procedures for the maintenance of gravel roads, ditch maintenance, pothole patching, crack sealing and basic traffic control measures.
PART 2 - (44:00) - This video details procedures for highway shoulder maintenance using a motor grader and asphalt chip sealing.

C/M-141 PAVEMENT STRUCTURE REPAIR TECHNIQUES: MAINTENANCE OF GRAVEL ROADS
NORTH CAROLINA INSTITUTE OF TRANSPORTATION RESEARCH AND EDUCATION
27:00

This video discusses the importance of maintaining gravel roads and gives a detailed training on how to do so. Tells how to maintain shape, composition, and drainage of gravel roads by using a motor grader. Educates about motor grader use and proper maintenance, but mainly focuses on how to maintain and reshape a gravel road.

C/M-135 PAVING TECHNIQUES
VIDEO UNIVERSITY PRODUCTIONS
37:00

This video shows the latest pavement technology and techniques. It discusses how to improve smoothness and longevity of roads by quoting different studies with valuable information about materials and processes. Some of these processes include: pavement laying techniques, equipment usage, pavement mixing, and truck laws.

C/M-136 PAVING AND COMPACTION TRAINING
VIDEO UNIVERSITY PRODUCTIONS
1Hr:43Min

This video discusses common pavement equipment and gives directions for their use. It also gives basic directions for different paving jobs such as roads and parking lots. The video discusses all the various problems one might encounter on the job-site and gives real-life suggestions and solutions for these problems.

C/M-055 PIPE CULVERT INSTALLATION
PENNSYLVANIA DOT
24:00

This video describes the required labor, equipment, and materials necessary for successful pipe placement operation. It examines six basic areas to consider when installing pipe - location, size, grade, excavation, bedding, setting the pipe, back filling, and end treatment.

C/M-132¹ PIPE INSTALLATION AND INSPECTION (Lecture Audio)
C/M-132² PIPE INSTALLATION AND INSPECTION (Lecture Audio)

C/M-056 PIPE PLACEMENT
PENNSYLVANIA DOT
8:36

This video deals with the proper installation and placement of drainage pipes.

C/M-143 PORTA BATCH
CHEMICAL LIME CO.
This video discusses the use of lime slurry in soil stabilization. Specifically, the product was used underneath airport runways to provide a long-term stabilized base with low permeability. The Porta-Batch is a portable lime system which yields a dust free mixture to be spread. Product information is provided.

C/M-057 PORTLAND CEMENT CONCRETE (PCC)
UTAH DOT
32:30

This video contains three parts: 1) Patch PCC with PCC (12:30 min), 2) Patch PCC with bituminous material (10 min) & 3) PCC Joint Seal (10 min). Each part describes the method that is used in each procedure listed above.

C/M-066 PORTLAND CEMENT CONCRETE PAVEMENT RESTORATION
FEDERAL HIGHWAY ADMINISTRATION
26:00

This videotape discusses the use of Portland Cement Concrete Pavement and the methods of restoration of such pavement.

C/M-028 POTHOLE REPAIR IN ASPHALT CONCRETE PAVEMENT
INTERNATIONAL ROAD FEDERATION
13:00

This video focuses on material and equipment used in pothole repair and a nine-step procedure for making a permanent repair.

C/M-029 POTHOLE REPAIR IN SURFACE TREATMENT PAVEMENT
INTERNATIONAL ROAD FEDERATION
14:00

The correct procedures for repair of potholes in surface treatment pavement are described in this video. Granular materials used for filling the hole which will provide long-lasting repair and proper equipment and materials used for repair are also discussed.

C/M-030 POTHOLES: "CAUSES-CURES-PREVENTION"
U.S. ARMY CORPS OF ENGINEERS
17:00

This videotape discusses the causes, cures and prevention of potholes in road surfaces. Repair procedures are defined, including a 12-step procedure for resolving the pothole problem. While the tape has a northeast setting, it applicable to this part of the country.

C/M-095 PROBLEMS WITH GRAVEL ROADS
FEDERAL HIGHWAY ADMINISTRATION
55:00

This three-part video presentation examines the environment of gravel roads and the aggregate materials used to surface them; addresses problems with gravel roads and how to prevent them; and discusses maintenance equipment and techniques.

C/M-134 PROTECTING OUR PAVEMENT: PREVENTIVE MAINTENANCE
This video discusses preventive maintenance, specifically techniques and training, improved planning methods, and dedicated funding.

C/M-128 READY MIXED FLOWABLE FILL
PORTLAND CEMENT ASSOCIATION
5:00

Use of “ready mix” flowable fill for highway, utility, and building applications.

C/M-031 RECYCLING FLEXIBLE PAVEMENT WITH CEMENT
PORTLAND CEMENT ASSOCIATION
9:30

The recycling of existing pavement materials in construction of new pavement is discussed in this video. The video shows how to build the new road using the old pavement elements, eliminating the need to haul in a new base. It stresses how recycling flexible pavement reduces waste in time materials, and money.

C/M-054 RECYCLING ROADS WITH ASPHALT EMULSIONS
ASPHALT INSTITUTE
22:00

This video highlights the methods and materials used throughout the United States to recycle low-volume roads' material to construct asphalt-strengthened pavement bases. Both central plant and in place operations are shown, focusing on the advantages of cold-mix recycling as a cost-effective road rehabilitation and improvement option. The film is useful for engineers involved in the development of rehabilitation programs for low-volume roads. It is also aimed at state and local government officials, and all concerned with local roads.

C/M-033 REGRAVELING
INTERNATIONAL ROAD FEDERATION
18:00

A major maintenance operation, to restore the wearing course of gravel roads is presented in this videotape. Necessary repairs of the road and drainage system before regraveling are discussed. Equipment, materials and a six-step procedures for regraveling are described. Methods for checking the road cross slope and quick testing of the material’s moisture content are also shown.

C/M-096 REHABILITATION OF HIGHWAY CONCRETE
STRATEGIC HIGHWAY RESEARCH PROGRAM (SHRP)

1. Introduction to Rehabilitation of Highway Concrete 10:00
2. Quality Control of Concrete On Site, Part One 14:00
3. Quality Control of Concrete On Site, Part Two 17:00
4. Quality Control of Concrete On Site, Part Three 18:00
5. Quality Control of Concrete On Site, Part Four 18:00
6. Concrete Pavement Overlays
7. Bridge Deck Overlays
8. Alkali-Silica Testing
9. Freeze Thaw Testing
10. Full-Depth Repair of Jointed Concrete Pavement
11. Early Opening of Full-Depth Concrete Repairs
12. Partial Depth Repair of Concrete Pavement

C/M-098 REHABILITATION OF PORTLAND CEMENT CONCRETE PAVEMENTS USING HOT MIX ASPHALT OVERLAYS
NATIONAL ASPHALT PAVEMENT ASSOCIATION
17:35

This video discusses the procedure and practice of rehabilitating concrete pavements using hot mix asphalt overlays.

C/M-035 REPAIR OF DEPRESSIONS, RUTTING AND CORRUGATIONS
INTERNATIONAL ROAD FEDERATION
14:00

This videotape covers the basic repair method for depressions, rutting and corrugations. The basic method consists of filling in the low areas with a leveling course of asphalt concrete and then overlays the entire area with a wearing course. The proper procedures to perform this repair method with a motor-grader are described through eight work steps.

C/M-036 REPLENISHING EARTH AND GRAVEL SHOULDERS
INTERNATIONAL ROAD FEDERATION
19:00

This module shows the nine maintenance work steps to restore the unpaved shoulder. Proper procedures are presented for preparing the existing shoulder surface before adding additional material. Equipment and material required to do the job are discussed, as well as proper use of equipment.

C/M-037RESHAPING EARTH AND GRAVEL SHOULDERS
INTERNATIONAL ROAD FEDERATION
15:00

This videotape shows the proper procedure for reshaping earth and gravel shoulders (without adding material) to correct shoulder drop-off, rutting, build up of material, and excessive weed with proper cross slope. A nine-step maintenance procedure is presented, and the equipment and hand tools required are also discussed.

C/M-038 ROAD MANAGEMENT SYSTEM
U.S. ARMY CORPS OF ENGINEERS/ FHWA
6:00

Two types of pavement management systems, the "paver" road system and the "micropaver" for use with PC's, are introduced in this video. Pavement management systems gather and organize information which can tell which roads need help, are getting better, etc. It also discusses the benefits of the system.
C/M-081 ROAD REPAIR: DO THE RIGHT THING AT THE RIGHT TIME
MINNESOTA LOCAL ROAD RESEARCH BOARD
21:30

This video discusses causes of pavement breakup along with the procedures to keep the pavement in good condition. Different types of pavement cracking are discussed and identified.

C/M-092 ROUTINE STRUCTURE CLEANING
UTAH DEPARTMENT OF TRANSPORTATION
17:00

This video emphasizes the need to keep structures clean and drainage systems open. It explains the procedures for cleaning underneath the structure; cleaning the deck with an inductor or sweeping; and clearing out the drainage systems.

C/M-039 RURAL ROADS: A NEW APPROACH
MONTANA STATE UNIVERSITY
20:00

This videotape discusses gravel road problems and solutions to these problems including the use of filter fabrics on gravel roads and current technology which can be utilized in upgrading secondary roads. Strengthening of old timber bridges and flame straightening of steel members of truss bridges are also discussed.

C/M-090 SANDBLASTING SAFETY
MINNESOTA DEPARTMENT OF TRANSPORTATION
19:00

This video demonstrates the correct and safe procedures for setting up and running a sandblasting operation.

C/M-099 SAVE THAT ROAD – CHIPSEALING
OKLAHOMA STATE UNIVERSITY
45:00

This video discusses the benefits of chipsealing.

C/M-089 SEALCOATING: A MATTER OF SCIENCE AND SKILL
MINNESOTA DEPARTMENT OF TRANSPORTATION
16:28

The primary objective of this video is to show maintenance workers how to perform a high quality chip seal operation.

C/M-040 SINGLE AND MULTIPLE SURFACE TREATMENTS
INTERNATIONAL ROAD FEDERATION
14:00

This module gives the what, why and how in construction of successful surface treatments on unpaved and paved roads. It covers good construction practices in eight detailed work steps.

C/M-041 SMOOTHING AND REHAPING OF EARTH AND GRAVEL ROADS
INTERNATIONAL ROAD FEDERATION
20:00

This videotape consists of two parts: smoothing and reshaping. Each part has an equipment requirement, an overview of work steps, work steps in detail, and a work step summary. Planning and preparing the work, and checking the cross slopes at straight and curved sections are covered.

C/M-042 SOIL-CEMENT INSPECTION AND FIELD CONTROL
PORTLAND CEMENT ASSOCIATION
18:00

This videotape reviews the five factors involved in field control as well as the job of the inspector in coordinating these factors based on the soil-cement inspectors manual.

C/M-142 STOCKPILE RECOVERY TO MINIMIZE SEGREGATION
FEDERAL HIGHWAY ADMINISTRATION March 1999
8:00

This video provides information on the proper loading of aggregate mixtures to maintain their proper distribution. Mainly, it shows how to correctly use a front-end loader to load aggregate from a stockpile onto a truck.

C/M-045 SUBDIVISIONS: A LOCAL DILEMMA
MONTANA STATE UNIVERSITY
29:00

The concerns of subdivision developers and planers in Montana are discussed which are similar to the concerns of small towns everywhere. In addition, the technical and political factors involved with subdivision development are discussed.

C/M-064 SUBSURFACE UTILITY ENGINEERING: A TECHNOLOGY FOR THE 90'S
FEDERAL HIGHWAY ADMINISTRATION
12:41

This video illustrates the designation, location and data management of subsurface utility engineering. It also describes applications of subsurface utility engineering in completing highway projects in a more timely and efficient manner.

C/M-062 SUPERPAVE: ASPHALT PAVEMENTS THAT PERFORM
STRATEGIC HIGHWAY RESEARCH PROGRAM (SHRP)
5:00

This video tape provides an excellent, short, understandable explanation of SHRP'S asphalt products. It explains why they are needed and what they will do, and it gives a quick, non-technical view of what the supporting tests are. It will provide everyone whether chief administrative officer, state legislator, pavement engineer, or technician with a good overview of important changes that are coming in asphalt technology.
C/M-071  SURVEYING CREW ORIENTATION - SURVEYING OPERATIONS  
(PARTS I & II)  
MINNESOTA DEPARTMENT OF TRANSPORTATION  
33:00  
Part I - Introduction to Levels and Level Rods, Transit, Chains, Pins, and other tools.  
Part II - Taping using 100 foot steel tape.  

C/M-072  SURVEYING EQUIPMENT: ENGINEER LEVELS  
OREGON STATE UNIVERSITY  
36:00  
This video describes the three types of engineering levels in common use: Y Level, Dumpy Level, and  
Automatic/Self-Leveling Level. Shows how to read the rod and the use of the rod target and vernier.  

C/M-026  TECHNICAL ADVANCEMENTS FOR MAINTENANCE WORKERS: FOR  
CHIEF ADMINISTRATIVE OFFICERS  
STRATEGIC HIGHWAY RESEARCH PROGRAM (SHRP)  
11:45  
Intended for chief administrative officers, this video describes the development of new materials, equipment and  
procedures to help maintenance workers operate more efficiently and safely.  

C/M-027  TECHNICAL ADVANCEMENTS FOR MAINTENANCE WORKERS: FOR  
MAINTENANCE MANAGERS & WORK CREWS  
STRATEGIC HIGHWAY RESEARCH PROGRAM (SHRP)  
14:45  
This video, intended for maintenance workers & work crews, describes the development of new materials,  
equipment, and procedures to help maintenance workers operate more efficiently and safety. It describes a  
number of technical advancements for maintenance workers forthcoming from SHRP highway operations studies.  

C/M-106  TENSAR BIAXIAL GEOGRIDS - SUBGRADE IMPROVEMENT BASE  
REINFORCEMENT  
CONTECH CONSTRUCTION PRODUCTS, INC.  
12:00  
This video is a presentation on the use of tensar geogrids for subgrade and base reinforcement.  

C/M-124  TESTING READY MIXED CONCRETE IN THE FIELD  
PORTLAND CEMENT ASSOCIATION  
57:48  
Demonstrates correct procedures for conducting standard ASTM tests: C172, C143, C138, C231, C173, C31,  
C1064. For use in studying for the ACI field testing certification program.  

C/M-125  TROUBLESHOOTING AND PREVENTION OF CONCRETE PROBLEMS IN  
THE FIELD
This is an informative overview that addresses the most common surface defects in formed concrete. Honeycombing, bugholes, form streaking, sand streaking, aggregate transparency, subsidence cracking, color variations, cold joints, layer lines, and form offsets are all covered. The relationship between proper vibration techniques and quality formed surfaces is also clearly shown. The causes of each defect are identified and techniques to minimize or prevent the defect are presented. This videotape is a must for anyone responsible for vertical concrete surfaces.

C/M-097 ULTRA-THIN WHITETOPPING
NATIONAL READY MIXED CONCRETE ASSOCIATION
8:00
This video discusses the advantages of whitetopping residential streets, county roads, intersections, and general aviation airports.

C/M-097A ULTRA THIN WHITETOPPING VIDEO
PORTLAND CEMENT ASSOCIATION
8:00
UTW advantages of thin (2”-4”) Portland Cement overlay over existing asphalt pavement.

C/M-105 UNDERSTANDING SUPERPAVE MIX DESIGN
FEDERAL HIGHWAY ADMINISTRATION & NATIONAL ASPHALT PAVEMENT ASSOCIATION
13:10
This video provides a brief, yet excellent overview of the Superior Performing Asphalt Pavement (Superpave) process for designing hot mix asphalt pavements. It should be of value to you and your staff in understanding the equipment and process involved in implementing this technology to improve the performance of asphalt pavements.

C/M-032 UNSURFACED ROAD MANAGEMENT
U.S. ARMY CORPS OF ENGINEERS
9:00
This video demonstrates an unsurfaced road management system and stresses how it can help anticipate future road repair needs, allowing for planning cost-efficient repairs. In addition, it discusses the steps involved in putting a system together and presents a system developed by USA CREEL as well as outlining the benefits of the system.

C/M-034 UNSURFACED ROAD INSPECTION
U.S. ARMY CORPS OF ENGINEERS
8:00
This videotape demonstrates how to take measurements for an unsurfaced road management system and how to plan road maintenance programs which are more efficient. In addition, the video identifies the seven road distresses management systems face and how to measure them.

C/M-048 UPGRADING GRAVEL ROADS
MONTANA STATE UNIVERSITY
This videotape explains the importance of gravel roads in rural areas. The tape demonstrates the techniques and evaluates the costs of upgrading rural gravel roads. This tape is directed at the problems that low maintenance budget counties face in keeping such roads in good condition. Techniques for some types of maintenance are also discussed.

C/M -050 USES OF ASPHALT-RUBBER
ASPHALT RUBBER PRODUCERS GROUP
12:00
This videotape gives the description and uses of asphalt-rubber which is a blend of reacted scrap rubber and asphalt cement.

C/M-053 WETTED SALT
DOW CHEMICAL COMPANY
20:00
The advantages of using liquid calcium chloride in conjunction with rock salt as a deicing agent to control snow and ice are discussed.

C/M-110 WHAT IS ANTI-ICING
FEDERAL HIGHWAY ADMINISTRATION
9:00
This video is a presentation of the different presentations of how highway maintenance personnel can use to combat icing of roads and bridges.
EQUIPMENT

E-034 AMZ MAGNUM POTHOLE PATCHER
10:00

This videotape explains how the AMZ Magnum Pothole Patcher simplifies repairs; eliminates work, fatigue, & discomfort; increases productivity; reduces material & labor costs; produces longer lasting repairs; and eliminates settling.

E-001 BACKHOE: PART 1 & PART 2
DELAWARE DEPARTMENT OF TRANSPORTATION
20:00

Part 1 - 10 minutes - Machine parts and functions, and pre-trip inspection of backhoes is reviewed. The five basic parts of all backhoes, the supporting unit, stabilizers, boom, dipper, and buckets are covered.

Part 2 - 10 minutes - Operating techniques and shutdown procedures of the backhoe are presented.

E-003 BACKING - YOU OWE IT TO YOURSELF
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
10:00

Equipment operators are familiarized with proper backing procedures in this video. It also outlines proper procedures for backing methods for reducing backing accidents.

E-037 BASIC EQUIPMENT OPERATION: WHEEL TRACTOR & MOWING MACHINES
LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

This video describes the many uses of the wheeled tractors and mowing machines and safe operating procedures for each.

Part I - Equipment Inspection
Part II - Preventive Maintenance & Servicing
Part III - Instrument Panel and Controls, Start, Stop, Secure
Part IV - Mower and Tractor Safety

E-026 BATWING MOWER OPERATION
DELAWARE DOT
17:00

This videotape discusses Batwing Mower Operations. It consist of pre-trip inspections, general operation, and shut-down procedures.

E-027 BULLDOZER PREVENTIVE MAINTENANCE
DELAWARE DOT
13:00

This videotape discusses the preventive maintenance of bulldozers. It consists of daily checks and start-up and shut-down procedures.
E-024 CHOICE IS YOURS, THE
CATERPILLAR
18:00

This videotape discusses diesel powered truck engines, the importance of maintenance, repair and overhaul, and remanufacturing.

E-004 CRACK SEALER EQUIPMENT OPERATION: PART 1 & PART 2
DELAWARE DEPARTMENT OF TRANSPORTATION
24:00

A two part series covering the operation of crack sealer equipment.

  Part 1 - (13:00) - This tape covers lighting of the burners to the head sealant, pre-trip inspection, start-up and agitation, and towing the crack sealer to the job site.
  Part 2 - (11:00) - This tape covers applying the sealant, loading the sealant tank during operation, and cleaning out and shutting down the unit.

E-039 CRACK SEAL TECHNIQUES AND MODEL 200 VIDEO MANUAL - Part #26247
CRAFCO, INC.
25:00

E-033 DURAPATCHER
15:03

This videotape explains the parts and functions of the DuraPatcher, which is a hot & cold mix pothole patcher that is manufactured by Duraco Industries, Inc. in Jackson Mississippi.

E-030 DUMP TRUCKS & PREVIOUS MAINTENANCE OVERVIEW
NEBRASKA DEPT OF ROADS
50:00

This videotape discusses a previous maintenance overview and dump truck operations. The previous maintenance overview goes over basic maintenance on all types of equipment. The dump truck operation segment consist of two parts. Part 1 covers pre-trip inspections, start-up procedures & transmissions. Part 2 covers basic maneuvering, dump box operation and shutdown.

E-007 EQUIPMENT MANAGEMENT SYSTEMS
FEDERAL HIGHWAY ADMINISTRATION
40:00

This videotape presents material to assist managers in developing and implementing equipment management techniques.

E-007-A EQUIPMENT MANAGEMENT SYSTEMS
FEDERAL HIGHWAY ADMINISTRATION
17:30

This videotape discusses the various elements of an EMS, including shop management, inventory control, fluid dispensing, and financial control.
E-038 EQUIPMENT MANAGEMENT SYSTEMS SERIES
INTERNATIONAL ROAD FEDERATION
57:00

- Introduction to Equipment Management Systems-An Overview - (19 minutes)
- Equipment Inventory - (19 minutes)
- Equipment Maintenance - (19 minutes)

E-020 FORKLIFT SAFETY: OPERATING SAFELY
TEL-A-TRAIN
20:20

This video shows how to operate a forklift to avoid injury to people, products, and equipment. Keys to forklift safety are: 1) being aware of the dangers, 2) inspecting the truck and equipment, 3) knowing the rules of safe operation, and 4) paying attention whenever driving or working around a forklift.

E-028 GRADALL
DELAWARE DOT
2500

This videotape discusses the operation of the gradall in two parts. Part 1 consist of general information and start-up procedures. Part 2 consist of basic operating techniques & shut-down procedures.

E-036 GUARDRAILS
MINNESOTA DEPARTMENT OF TRANSPORTATION
9:30

This video provides an overview on how to maintain guardrails. It covers design, testing of design, and maintenance. It discusses cable and plate beam systems.

E-023 HAZARDS OF HURRY, THE
CATERPILLAR
21:00

This videotape emphasizes backhoe loader safety tips for operators. It shows some of the most typical; backhoe accidents caused by the human tendency to “hurry up.” It also discusses preventive maintenance and safe operating procedures for operators.

E-008 IMPROVED METHODS FOR HANDLING SALTS SPREADERS
FEDERAL HIGHWAY ADMINISTRATION
22:00

This videotape shows a new modified design of salt spreader racks and how they work. In addition, it shows how to modify present racks instead of building the new rack. It demonstrates use of the tailgate rack as well as removing the truck tailgate, loading the salt spreader, unloading the salt spreader, and reattaching the truck tailgate.

E-035 LEE-BOY ASPHALT MAINTAINER
B. R. LEE INDUSTRIES
12:00

This videotape discusses the parts & functions of the Lee-Boy Asphalt Maintainer.
E-009 LOADER OPERATION - 2 PARTS
WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
35:00

This videotape consists of two parts for training loader operators. The first part features pre-trip inspection, start-up procedures, loader controls, and shutdown procedures. The second part features suggestions on maneuvering and operating loaders.

E-031 MOTOR GRADERS
NEBRASKA DEPT OF ROADS
73:00

This videotape consists of four parts with information about motor graders. Part 1 covers basic information and start-up & shut-down procedures. Part 2 covers blade position and maneuvering. Part 3 covers operating techniques and Part 4 covers uses of the motor grader.

E-010 MOTOR GRADER OPERATION - THREE PARTS
WASHINGTON DEPARTMENT OF TRANSPORTATION
54:00

Part 1 - (17:00) - This video includes review of equipment instruments and controls, pre-operation checks, general operations tips, how to start the engine, basic maneuvers including moving forward and backward, turning, braking and sloping, safety practices, and six basic steps of operation for any job.
Part 2 - (16:00) - This video reviews operating procedures for five motor grader activities: grading a surface, mixing and windowing, spreading, finish grading, ditch cutting, backslope preparation, and ditch cleaning.
Part 3 - (21:00) - This videotape reviews six steps for proper operation of motor graders.

E-013 MULTIPLE CHOICE
CATERPILLAR COMPANY/NATIONAL SAFETY COUNCIL
24:00

This videotape deals with safe heavy equipment operation. Carefully reconstructed accident situations are freeze-framed at the actual moment of judgement, and the audience is asked to spot the hazard.

E-018 OPERATOR DAILY MAINTENANCE OF ASPHALT DISTRIBUTORS
INTERNATIONAL ROAD FEDERATION
16:00

This videotape focuses specially on daily preventive maintenance requirements and procedures on the asphalt distribution system of the asphalt distributor. They include four areas: the pre-start check, the warm-up check, the daily operating check, and the shut-down check. The tape also covers the test of the distribution power system, the inspection and cleaning of the bitumeter, the test and adjustments of the spray bar and nozzles and procedures for cleaning out the asphalt distribution system.

E-019 OPERATOR DAILY MAINTENANCE OF CRAWLER TRACTORS
INTERNATIONAL ROAD FEDERATION
20:00

This videotape gives a step by step daily maintenance procedure for crawler tractors consisting of four groups of activities: the pre-start check, the warm-up check, the daily operating check, and the shutdown check.

E-017 OPERATOR DAILY MAINTENANCE OF DUMP TRUCKS
This videotape gives a step-by-step daily maintenance procedure for dump trucks. These include: the walk around pre-start inspection, the warm-up check, the daily operator check, and the shut-down check requirements.

E-014 OPERATOR DAILY MAINTENANCE OF FRONT END LOADERS
INTERNATIONAL ROAD FEDERATION
18:00

This video demonstrates in detail how to correctly carry out four groups of daily maintenance activities on the front-end loader and why these activities are necessary.

E-012 OPERATOR DAILY MAINTENANCE OF LIGHT VEHICLES
INTERNATIONAL ROAD FEDERATION
17:00

This videotape shows the driver how to perform proper daily preventive maintenance procedures on light vehicles such as pick-ups and station wagons, and why these procedures are necessary.

E-015 OPERATOR DAILY MAINTENANCE OF MOTORGRADERS
INTERNATIONAL ROAD FEDERATION
21:00

This module shows the operator proper daily maintenance procedures which consist of four groups of activities: the pre-start check, the warm-up check, the daily operating check, and the shutdown check.

E-016 OPERATOR DAILY MAINTENANCE OF ROLLERS
INTERNATIONAL ROAD FEDERATION
21:00

This tape demonstrates the daily maintenance procedures for rollers including steelwheel rollers, pneumatic tire rollers and vibratory rollers.

E-032 PLOWS OF THE FUTURE
STRATEGIC HIGHWAY RESEARCH PROGRAM (SHRP)
8:00

This videotape describes the development and benefits of the SHRP snow plow configurations including reduced energy costs, and improved safety features.

E-011 PNEUMATIC TIRE ROLLER OPERATION - 2 PARTS
UTAH DEPARTMENT OF TRANSPORTATION
32:00

This videotape is divided into two parts. Part one reviews daily checks, start-up and warm-up, basic operation, rolling techniques, and shutdown of pneumatic tire rollers. Part two covers preventive maintenance routines for pneumatic and steel-wheeled rollers with attention to fluids, filters, and lubrication.

E-025 PUFF ASPHALT MAINTENANCE SYSTEMS
ONE MAN, INC. & PUFF EQUIPMENT, INC.
This videotape discusses Puff Equipment Inc’s self contained mechanized pothole repair vehicle, which can be used as a successful asphalt maintenance system.

E-042 ROAD BADGER DEMONSTRATION VIDEO
ROAD BADGER INC.
8:00
This videotape demonstrates the usefulness and capabilities of the “Road Badger”. It shows examples through the use of the product in different applications including: oil roads, older oil road reconditioning, and even product mixing. Product acquisition information is given at conclusion.

E-022 SHAKE HANDS WITH DANGER
CATERPILLAR
23:00
This video has a message for all who work with heavy machinery and common shop tools. It is primarily geared toward operators and mechanics. Realistic accidents, selected with help from the National Safety Council, make the video’s warning loud and clear.

E-029 SIX WHEEL DUMP TRUCKS
DELWARE DOT
25:00
This videotape discusses the maintenance of six-wheel dump trucks which is covered in two parts. Part 1 consist of daily checks, start-up procedures, and transmissions. Part 2 consist of basic maneuvering, dump body operation, and shut-down procedures.

E-006 THERMO-LAY POTHOLE PATCHER - 2 PARTS
DELWARE DEPARTMENT OF TRANSPORTATION
23:00
Part 1 - (9:00) - The major component of thermo-lay pothole patcher sand what they do as well as the pre-trip inspection check list are presented in this video.
Part 2 - (14:00) - the operation of the thermo-lay pothole patcher and shutdown procedures are discussed.

E-005 THERMOPLASTIC STRIPING APPLICATION
TEXAS DEPARTMENT OF HIGHWAYS & PUBLIC TRANSPORTATION
13:00
The purpose of this videotape is to explain the striping procedure and show what to look for in a high quality pavement marking.

E-021 TIPS FOR SAFE TRACTOR OPERATION
FORD
This presentation provides the audience with the basic safety rules of operating tractors and equipment. It is divided into three sections: Agricultural Tractor Safety, Implement Safety, and Industrial Equipment Safety.

E-002 TILT BED TRAILERS - 2 PARTS
WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
27:00
This videotape consists of two parts. The first part emphasizes pre-start inspection, trailer hook-up procedures,
and equipment loading prior to hauling. It also illustrates how to load equipment on a low-boy trailer. The second part supplements part one and features practical hints on trailer towing, unloading procedures, and loading and hauling pipe materials.
OTHER

O-011 AASHTO TRANSPORTATION 2020: KEEP AMERICA MOVING
AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS (AASHTO)
14:30

O-035 AEMA PAVING THE WAY...TO THE 21ST CENTURY
ASPHALT EMULSION MANUFACTURERS ASSOCIATION (AEMA)
11:00
This video presents the various uses of asphalt emulsions in the building and repair of roadways.

O-036 ALCOHOL AND DRUG TESTING REQUIREMENTS FOR CDL EMPLOYEES AND SUPERVISORS
PENNSYLVANIA LTAP CENTER
13:30
This video provides an overview of drug and alcohol testing requirements as published by the Pennsylvania Department of Transportation.

O-024 BETWEEN THE LINES - PREPARING YOUR DAY
MINNESOTA DOT
5:00
This video discusses the proper sequence of steps that need to be followed for successful traffic control preparation.

O-047 BOUDREAUX AND THIBODEAUX IN ETHICS LAND
LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
LOUISIANA TRANSPORTATION RESEARCH CENTER
This is a brief video that entails a comedic look at situations that one might encounter concerning ethical dilemmas in the work environment.

O-013 CAN A PC HELP YOU?
KANSAS UNIVERSITY TRANSPORTATION CENTER
29:00
This videotape provides a brief introduction to personal computer technology for rural transportation agencies, focusing on the factors to be considered when preparing to purchase a first system and stressing the effective applications of computer technology.

O-001 CHANGING RURAL AMERICA: THE NEEDS, THE CHALLENGE
U.S. DEPARTMENT OF AGRICULTURE
25:00
This tape was developed to provide useful background briefings to policy officials in public meetings, conferences and in the classroom. Experts review recent population and economic trends in rural areas and implications of these trends.
Part 1: OVERVIEW - (13:00) - This tape is a first of ten that are designed to prepare drivers to take the knowledge and driving skills examinations to obtain a commercial driver's license and the four endorsements. It identifies what is considered to be a commercial vehicle and what endorsements are required to various types of vehicles. It then gives an overview of what is included in the following series and how they can be used to prepare for the exams.

Part 2a: VEHICLE INSPECTION - (27:00) - This tape deals with vehicle inspection and sets forth a 7-step pre-trip inspection, operating checks that should be done, and the post-trip inspection.

Part 2b: OPERATING TECHNIQUES - (40:00) - This tape contains operating techniques for basic control of the vehicle and space management. Included are acceleration, deceleration, backing, shifting, turning, and stopping distance.

Part 2c: OPERATING TECHNIQUES (cont.) - (34:00) - Topics included on the tape: nighttime driving, winter driving, summer driving, mountain driving hazards, and emergency situations.

Part 2d: VEHICLE SAFETY - (22:00) - This tape deals with vehicle safety which includes what to do in case of an accident; danger of fires and ways to prevent and extinguish them; ways to stay alert; avoidance of alcohol and drugs; and the knowledge of hazardous materials and how to identify them.

Part 3: TRANSPORTING CARGO - (12:00) - This tape prepares drivers for the CDL exam. It includes the steps necessary to make sure that cargo is properly loaded and secured, to lower the center of gravity and reduce shifting of the load. It also covers liquid cargo.

Part 4: TRANSPORTING PASSENGERS - (15:00) - This tape addresses the operation of passenger-carrying vehicles that require a CDL with a passenger endorsement. The pre-trip inspection of the vehicle, the loading of passengers, storage of baggage, passenger notification and control, where stops and caution are required, and post-trip inspection are covered.

Part 5: AIR BRAKES - (32:00) - This tape prepares drivers for the CDL air brake endorsement. It covers the air brake system, explaining the component parts and operation. Inspection of the system and how to use the air brakes are also included.

Part 6: COMBINATION VEHICLES - (32:00) - This portion of the CDL series contains material for the combination vehicle endorsement. It covers safety factors concerning loading and speed on curves and turns. It gives information on off-tracking and procedures for making turns as well as the air brake systems, procedures for coupling and uncoupling the trailers and dollies, and pre-trip inspection following hookup.

Part 7: HAZARDOUS MATERIALS - (46:00) - This video includes the material needed to get a hazardous material endorsement for the CDL. It covers hazardous materials rules; driver's responsibilities; loading and unloading; and bulk-tank loading, unloading, and marking.

O-029 CREATING MEADOWS THROUGH ROAD MAINTENANCE AND CONSTRUCTION

This video deals with creating meadows through road maintenance and construction.

O-027 DIVERSITY IN THE WORKPLACE: A COMMON DESTINY

This video explains the concept of diversity and discusses trends in the workplace for the 1990s. It also discusses what changes in the workforce will mean for employers and employees.
This is an instructional video on the placement, design, and implementation of snow fences.

This promotional video displays Elgin’s products line.

This videotape covers the emergency relief program for federal-aid highways concerning natural disasters and catastrophic failures.

This video is a presentation of environmental protection procedures as applicable to different government agencies.

This videotape outlines twelve new tests. The companion report is *Handbook of Test Methods for Evaluating Chemical Deicers*.

Key training points: how AIDS can and cannot be transmitted; how to prevent contraction of the AIDS virus; and how to deal with co-workers who have AIDS. This video will help calm your employees' fears of contracting AIDS at work by delivering the facts and dispelling the myths about AIDS.

This video is about a surveillance of public work crews by a television station in Denver, Colorado.
O-053  GRADE CROSSING COLLISION INVESTIGATIONS
OPERATION LIFESAVER
58:30

Discusses the various practices of Grade Crossing Collision Investigation. Geared toward law enforcement officials, giving them the practical knowledge of railroad practices and equipment needed to conduct such an investigation. Video periodically pauses to allow for discussion, making it easy to use for training courses and seminars.

O-017  HOW TO FILL AND SEAL A WELL
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
20:00

This videotape discusses proper well abandonment techniques, why old wells are risky, assessing your well, do you need a contractor, how to properly seal the three major types of wells (drilled, driven, & dug), and where to get more information.

O-050  HOW TO GIVE A DEPOSITION
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
17:00

This video demonstrates the proper method of giving a deposition by a public official.

O-016  HOW WE PAY FOR AMERICAN ROADS
NAPA EDUCATION FOUNDATION INC.
12:00

This video tape is an educational program created to teach participants how our nation's federal, state, and local roads are financed. This program was created for grades 9 through 12 but can easily be integrated into instructional programs in business administration, economics, history, civics, consumer education, family living, and other topic areas. The objectives of this tape are to inform people about our nation's intricate system of roads, to investigate how roads are financed at the federal, state and local levels, to discover how much gasoline tax is paid at the gas pump for federal and state road construction, to learn about the current condition of our nation's roads, and to identify the economic costs of poorly maintained roads.

O-003  THE IDEA STORE - EDITION 1 - 9
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION FOR THE FHWA
3:44:03

Edition 1 - (8:00) - Various ideas are presented that have been sent to the Pennsylvania T² Center from throughout the country. This edition includes ideas on: leveling roads, special hand level, snow plow blade storage, sign identification decal, and standard plans for park benches and other street furniture.
Edition 2 - (13:03) - +procedure for quick id of work zone signs +rack/stand for work zone signs +collar for stabilizing traffic cones +blade changing on articulated motor grader made easy +procedure to check aggregate loss when grading aggregate roads +"tips from the field" from Iowa T² center +public information flyer - schedule for snow removal +public information flyer - schedule for trash pickup +better beaver baffler
Edition 3 - (9:40) - Subjects covered are two different types of lifters for changing plow blades; the proper way to remove and store locking pin on articulated loader from within the cab; a pamphlet on daily maintenance of motor graders; a yard cleaner for removing metal; the use of precast panelized wall units to eliminate stream erosion; and patching using a box mounted on the front of a motor
Edition 4 - (10:00) - Subjects covered are water runoff on rural roads; slush snow and ice build-up on snow removal equipment; road resurfacing; minimizing aggregate loss; use of discarded tires; and portable road closed sign display.

Edition 5 -(11:17) - The fifth edition of the Idea Store video series includes ideas on hard hat safety, tire inflation markers in trucks to help conserve fuel, "safety grams" used in an employee safety program, the use of the MUTCD and flagging handbooks, and an "adopt-a-sign" maintenance program.

Edition 6 - (17:00) - Ideas included in this edition of the Idea Store video series include: use of wildflowers along roadways; "adopt-a-highway" programs for reducing roadside litter; avoiding the use of improper or poorly designed signs; a "brainstorming box" for newsletter clippings of good ideas; a cage for work zone lights to prevent vandalism; the use of pre-cast walls to prevent erosion; the forming of pre-cast fence posts, sign posts, parking bumpers and sewer grates during the wintertime; the Pennsylvania Roads Scholar Program; and a municipal safety program.

Edition 7 - (10:08) - Ideas included in this edition of the Idea Store video series include: A storehouse of ideas from across the nation on ways to make your job safer, easier or better; Curb Scrapers; Dump Truck Air Foll; Timber Bridge Info; Delaware/Chester P.W.A. and Their Ideas; and Better Cylinder Wrench

Edition 8 - (10:00) - Contains: Hardhat Medical detail information, Montana DOT Winter Maintenance Awareness Program, How to deal with the hazards of a fuel truck in a maintenance shop, and Easy mounting of snow plow blades.

Edition 9 - (6:15) - This edition of the Idea Store features Pennsylvania Department of Transportation's development of a set of key tags to remind operators of the blind spots around various pieces of equipment.

O-039 IMPROVED SUGAR CANE TRANSPORT AND HARVEST
LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
LA TRANSPORTATION RESEARCH CENTER (LTRC)
18:00

This is a video of an LTRC research project in which the LA DOTD cooperated with public and private entities to demonstrate an improved, more ecologically responsible, universally beneficial harvesting and transport system.

O-044 INNOVATIVE THINKING
CALCASIEU PARISH POLICE JURY - DEPARTMENT OF PUBLIC WORKS

O-046 LA DOTD - WE KEEP LOUISIANA MOVING!
LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
LA TRANSPORTATION RESEARCH CENTER (LTRC)

O-008 LP GAS, KNOW THE FACTS
U.S. DEPARTMENT OF TRANSPORTATION/FHWA
11:00

This videotape describes LP gas and discusses proper procedures for handling, maintaining, and storing the gas. Recommended for local highway personnel who work with LP gas.

O-018 METERS-LITERS-GRAMS & METRIC MEETS INCH WORM
FEDERAL HIGHWAY ADMINISTRATION
20:00
In these two videos, the metric system is explained and the difference between the present system and metric is discussed.

**O-049 OPERATION LIFESAVER - HIGHWAY GRADE CROSSING ENFORCEMENT**
FEDERAL RAILROAD ADMINISTRATION
11:35

This video shows that enforcing current laws promotes safety. It also covers crossing signs and signals, railroad crossing laws, enforcement tools, stopping a train in an emergency, and contacting the railroad in an emergency.

**O-006 PAVING THE WAY FOR TOMORROW'S HIGHWAYS**
STRATEGIC HIGHWAY RESEARCH PROGRAM (SHRP)
16:00

This videotape gives an explanation of the Strategic Highway Research Program (SHRP) as a unit of the National Research Council. In addition, it discusses ways asphalt can be used more efficiently by extending the life of useful pavement, finding better ways to fix existing pavement, and through the use of weather control equipment.

**O-007 PENNSYLVANIA "AGRICULTURAL ACCESS NETWORK"**
PENNSYLVANIA DEPARTMENT OF TRANSPORTATION
25:23

This videotape discusses the basic transportation needs of agri-business, primarily the problems related to access between agricultural activity and the market.

**O-009 PLANNING AHEAD TO DEAL WITH CRISIS: A PR MEDIA SEMINAR - 2 PARTS**
LOUISIANA T² CENTER
3:00:00

This videotape addresses how to deal with the media during a crisis. Topics include public relations, credibility, and interviews. A must for anyone, particularly public officials, who may come in contact with the media.

**O-054 PROJECT DOCUMENTATION**
NCHRP
10:00

This video gives the practical reasons for making good documentation of construction, and gives several characteristics of what a good entry contains. To be applied by foremen and overseers whose job is to document progress and problems encountered during construction.

**O-055 PUBLIC WORKS MUTUAL AID**
NEW HAMPSHIRE
10:00
This video defines and discusses public works mutual aid as it applies to disasters and unforeseen emergencies. Describes how this inter-county/parish compact can help to alleviate any liability issues and also allows for FEMA reimbursement.
This video discusses the ways to be organized as a supervisor.

This is a video presentation of the “Equipment Roadeo” held at the Eastern New Mexico State Fair, where highway personnel test their skill against each other in the operation and maintenance of heavy equipment such as trucks, motor graders, backhoes, and front-end loaders.

Road Oyl is a non-water soluble, high bonding strength emulsion manufactured by Road Products Corporation. Road Oyl was developed specifically for use in pavement applications, dust control treatment and erosion control.

This videotape explains the rural technical assistance program and how it can help local agencies improve their roads and bridges in a cost effective manner by providing technical materials, information, and training.

Communicating current travel conditions lowers travelers’ stress and saves them time and money. This videotape illustrates how Advanced Traveler Information Systems return control to travelers by giving them choices - choices of time, route, and mode of travel.

This video identifies what sexual harassment is and how it can be avoided. Examples are shown along with possible solutions on dealing with sexual harassment.

SPHAG SORB ORGANIC INDUSTRIAL ABSORBENT
Sphag Sorb is a lab-tested, field proven industrial absorbent. It is natural, lightweight, compatible with conventional apparatus, economical, efficient, and easy to use. Most importantly, it is safe, non-toxic, non-leaching, and biodegradable for the environment.

**O-040 SUGAR CANE FIBER GEOTEXTILE DEVELOPMENT**  
**LA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT**  
**LA TRANSPORTATION RESEARCH CENTER (LTRC)**  
7:30

This video describes the LTRC project, “Production and Evaluation of Sugar Cane Fiber Geotextiles.” Mats produced in this project significantly reduced erosion, converting agricultural waste into a useful product.

**O-026 SUGGESTIONS FOR SPEECH PREPARATION AND DELIVERY**  
**MINNESOTA DOT**  
30:00

This video offers public speaking techniques and general communication skills useful to anyone who plans to speak to groups.

**O-038 THE BEST INVESTMENT A NATION EVER MADE**  
**AMERICAN HIGHWAY USERS ALLIANCE**  
11:14

This video explains the contributions and importance of the Interstate Highway System. Introduced by Bill Fay, President of the American Highway Users Alliance, he discusses the enormous negative impact the deteriorating conditions of our highways and bridges can have on our lives, if they are not maintained and improved. The video also explains, in detail, the diversion of federal highway tax dollars to non-highway uses, which results in less money to keep our roads in a safe condition. At the conclusion of the video, Mr. Fay delivers a strong message for highway users to send to their federal representatives and the candidates for those offices.

**O-004 THINGS TO COME: LULING**  
**LOUISIANA TRANSPORTATION RESEARCH CENTER**  
22:00

This video is a documentary on the description and construction of the Hale Boggs Bridge across the Mississippi River at Luling, Louisiana.

**O-052 TOOLS FOR PEAK PERFORMANCE**  
**TRANSPORTATION RESEARCH BOARD/NATIONAL RESEARCH COUNCIL**  
18:00

This video is designed for new first-and second-line supervisors of highway, road, and street maintenance workers, although managers at all levels in the agency can use the tools, techniques, and knowhow it presents to motivate their subordinates. The course, and the Instructor’s Manual and Participant’s Workbook that accompany it, are presented in nine chapters.

- Chapter 1 - Seeks to spotlight the importance and challenges of highway, road, and street maintenance.
- Chapter 2 - The goal of any organization is to be successful, to fulfill its purpose.
- Chapter 3 - All workers have a different set of needs and desires, and each worker is motivated by different actions.
- Chapter 4 - Rewards can be used to motivate workers.
- Chapter 5 - Determining expected performance, measuring and analyzing actual performance, and then
comparing the two to identify performance problems are important steps in motivating workers to improve their performance.

Chapter 6 - This chapter’s objectives include identifying the components necessary for achieving expected performance.

Chapter 7 - Principles and techniques are presented for raising worker performance to a motivated level by encouraging workers effectively.

Chapter 8 - This chapter features communication as yet another step toward improving worker performance.

Chapter 9 - This chapter aims to help participants combine all the concepts of the course into formulating written action plans.

O-045 TRAINING THE TRAINER - TURNING FIELD EXPERTS INTO EXPERTS IN THE CLASSROOM
NORTH CAROLINA LTAP CENTER
31:14

This video presents a review of the building blocks that are necessary in turning the field expert into the training expert. The key areas discussed are: What is training, Making training fun for you and your trainees, Communication in training, Trainer qualities, Trainer delivery, Training mistakes, What makes a good learning environment, and “Friend” style training.

O-022 TRANSPORTATION ENGINEER AS A COURT WITNESS, THE
THE INSTITUTE OF TRANSPORTATION ENGINEERS (ITE)
56:00

This videotape is a dramatization of a court case involving a construction work zone located on a highway.

O-005 TRUCK IMPACTS ON PAVEMENTS
FEDERAL HIGHWAY ADMINISTRATION
24:07

The purpose of this video is to familiarize pavement managers with the factors that affect pavement performance. It discusses how truck loadings are considered in pavement design, shows some examples of the affects of increase truck size and weight, and describes how truck configuration affects pavement deterioration.

O-046 WE KEEP LOUISIANA MOVING
LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
LOUISIANA TRANSPORTATION RESEARCH CENTER

This video describes all the areas with which DOTD are associated with. It explains how DOTD is involved with all the functional areas of transportation from highways to waterways to airways, while also maintaining research and development on an every day basis.

O-028 WHO'S MISSING
MINNESOTA DEPARTMENT OF TRANSPORTATION
3:45

Although this video was aimed at new drivers to show bad habits such as eating, reading and shaving while driving, this video can be used to make the point to highway workers that many drivers are not paying attention while driving.
PLANNING / DESIGN

P/D-002 A ROAD FOR ALL SEASONS
PORTLAND CEMENT ASSOCIATION
17:00

The benefits of portland cement roads are reviewed. Concrete roads are compared in terms of the present serviceability index and the costs to the taxpayer in terms of construction, maintenance and service life.

P/D-011 ADVANCED TRAFFIC SIGNAL SYSTEMS TECHNOLOGY:
CONFIGURATION AND SELECTION
IOWA TRANSPORTATION CENTER
3:00:00

This video is an in-depth examination of typical signal configuration and the philosophy behind traffic signal systems. Discussions will include the advantages and disadvantages of each type, features of each type, signal systems manufactures, hoe to match systems with staff and existing equipment, and an explanation of the pre-qualification process.

P/D-012 ADVANCED TRAFFIC SIGNAL SYSTEMS TECHNOLOGY:
TRAFFIC SIGNAL SYSTEM COMMUNICATIONS
IOWA TRANSPORTATION CENTER
3:00:00

Communications in signal systems is the topic of this video. This includes the history, advantages, disadvantages, special equipment, and relative cost of different types of communications used in traffic signal systems.

P/D-013 ADVANCED TRAFFIC SIGNAL SYSTEMS TECHNOLOGY:
TRAFFIC SIGNAL SYSTEM OPERATION AND MAINTENANCE
IOWA TRANSPORTATION CENTER
3:00:00

This video discusses data collection, signal timing, measures of effectiveness, and monitoring scheduled and random events.

P/D-014 ADVANCED TRAFFIC SIGNAL SYSTEMS TECHNOLOGY:
VEHICLE DETECTION
IOWA TRANSPORTATION CENTER
3:00:00

Vehicle detection topics to be covered in this video include inductive loop detectors, detector technology in traffic signal systems, detector placement, and innovation in detector use and capabilities.

P/D-001 A GIFT OF VALUE: VALUE ENGINEERING
FEDERAL HIGHWAY ADMINISTRATION
10:00

The history of value engineering and the six steps of value engineering are discussed. In addition, it uses the case of a bridge repair project in a community in Virginia as an example, showing lower cost alternatives and ways to make transportation budgets go farther.
If a community does not meet the standards of air quality, it will affect how much money the community will receive for transportation (roads, etc).

This video covers design issues for pedestrians who use wheelchairs, with ambulatory impairments, with low vision and who are blind.

This video explains the techniques and advantages of building roads using the notched wedge joint. Building longitudinal joints with the notched wedge technique ensures excellent performance by increasing density along the joint. There is also the benefit of added safety and convenience. Paving crews can complete work on one lane throughout a shift, rather than having to cease work and disrupt traffic to switch to the other lane. The videotape features live-action construction scenes, as well as detailed graphics explaining the notched wedge joint process: creating the well-defined notch, getting the right taper, providing sufficient overlap, and compaction.

This video presents information to help facilitate a better understanding of Pavement Preservation concepts, but does not constitute a standard, specification, or regulation.

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INTERNATIONAL ROAD FEDERATION
3:08:00
- Highway Management Systems-Introduction - (20:00)
- Pavement Management Systems-An Overview - (21:00)
- Pavement Management Systems-Data Collection and Management - (23:00)
- Pavement Management Systems-Development and Implementation - (23:00)
- Maintenance Management Systems-An Overview - (20:00)
- Maintenance Management Systems-Developing Maintenance Standards - (22:00)
- Maintenance Management Systems-Work Planning Process - (22:00)
- Maintenance Management Systems-Work Authorization and Scheduling - (19:00)
- Maintenance Management Systems-Work Reporting and Evaluation - (18:00)

P/D-003 HYDRAULICS OF ENERGY DISSIPATERS
COLORADO STATE UNIVERSITY
19:00
This videotape covers hydraulic concepts of energy dissipaters and the elements involved through the use of continuity, momentum, and energy equations in measuring hydraulic jump in an effort to slow down the flow of the water and reduce material displacement.

P/D-032A&B IMPLEMENTING PHASE II OF THE MPDES STORM WATER REGULATIONS
AMERICAN PUBLIC WORKS ASSOCIATION
This is a video of the live interactive workshop put on by the APWA to educate people about the new Phase II floodwater management regulations. There are four expert speakers who help to explain the coverage of the new rule, while also fielding questions from those participating via satellite. Discussed in the video are:
- Phase I Regulations (briefly)
- Phase II Regulations
- Waiver Options
- Permit Options
- Permit Requirements
- Control Measures
- Timeframes for Implementation
- Water Management Practices
- Exceptions, Enforcement
- No Exposure Rule

P/D-004 IMPROVED INLETS FOR HIGHWAY CULVERTS
FEDERAL HIGHWAY ADMINISTRATION
17:00
This videotape uses a demonstration to evaluate culvert inlet flow by comparing headwater elevation based on smoothness and roughness of the pipe, tail water, and pipe elevation. The demonstration shows benefits that can be derived by improved inlets on culverts operating with inlet control.
P/D-005  INTRODUCTION TO HIGHWAY HYDRAULICS
FEDERAL HIGHWAY ADMINISTRATION/COLORADO STATE UNIVERSITY
20:00

This videotape reviews the criteria involved with proper highway hydraulics. It presents the proper highway hydraulic principles of continuity and energy using laboratory experiments.

P/D-010  LOCAL ROAD ENGINEERING
CORNELL LOCAL ROAD PROGRAM
60:00

This tape is a video of the training session by Lynne Irwin of the Cornell Local Road Program. Design, capacity, geometrics, drainage, and pavements of highways are discussed.

P/D-020  LOW VOLUME ROADS SERIES
International Road Federation
38:00

- Setting Maintenance Priorities for Low-Volume Roads - (19:00)
- Managing Maintenance for Low-Volume Roads - (19:00)

P/D-007  PAVEMENT MANAGEMENT SYSTEMS FOR LOCAL ADMINISTRATORS
1990
ARIZONA STATE UNIVERSITY
17:15

This tape introduces a set of tools or methods that assist decision makers in finding cost-effective strategies for producing, evaluating, and maintaining pavement in a serviceable condition. These methods are called a pavement management system which consist of highway inventory, pavement condition survey, analysis of repair needs, ranking of needs and strategy and cost of pavement management systems are introduced to local government officials through the Rural Technical Assistance Program.

P/D-026  PREVENTIVE MAINTENANCE: Protecting Our Pavement
NATIONAL ASSOCIATION OF COUNTY ENGINEERS
14:26

This is a short video that describes how the right techniques and training, improved planning, and dedicated funding will result in improved highway conditions. If you preserve a relatively new road with the right treatment at the right time, you can create roadways with a longer life at a remarkably less cost.

P/D-017  ROADWAY DESIGN: BALANCING SAFETY, ENVIRONMENT AND COST
MINNESOTA LOCAL ROAD RESEARCH BOARD
13:00

The objective of this video is to provide an overview of three important factors to be considered when constructing or rebuilding a roadway: safety; environmental protection; and cost (both initial construction and long-term maintenance). Carefully weighing these three factors will benefit the public.

P/D-023  SAMPLING SOILS AND AGGREGATES
LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
LA TRANSPORTATION RESEARCH CENTER (LTRC)
12:00
This video from the U.S. DOT and Public Technology, Inc. is targeted to local officials. It discusses Intelligent Transportation Infrastructure (ITI), which uses computer and telecommunications to cut traffic delays, reduce air emissions, improve emergency response, expand traveler information, and increase transit and toll efficiency. It outlines the benefits of ITI, funding, planning, partnerships, and buy systems.

This videotape discusses how spur dikes reduce scour on bridge abutments during flooding and presents a study performed at Colorado State University designed to determine the most appropriate design of spur dikes.

This video discusses the process known as subsurface utility engineering, which accurately maps underground utilities and structures for use in the development of future construction projects.

The purpose of subsurface technology is to provide accurate information on the horizontal and vertical location of underground utility facilities during the early development of highway projects. This information can be used in location and design of highway improvement projects to minimize conflicts with underground utilities.

The Clemson Beaver Pond Leveler was developed to meet 2 goals: the need to suppress the problem of flooding agricultural and timber lands and to maintain or improve some of the benefits derived from beaver ponds. The leveler offers the opportunity to get along with, and in some cases, derive benefits from the existence of a few beavers. (Condensed version available.)
This video contains information on initial costs of building stronger roads and the cost of defining and displaying spring load limits. It also goes over a reliable and efficient *Applied Pavement Program* which can replace guess work in deciding how to maintain roads.
SAFETY / TRAFFIC

S/T-030 ADVANCE WARNING (FLASHING) ARROW PANELS:

FEDERAL HIGHWAY ADMINISTRATION
49:20 MINUTES

- POSITIVE GUIDANCE (25:00)
- BARRIER DELINEATION IN WORK ZONES: THE WELL-DEFINED PATH (24:20)

The first video describes the purpose of Flashing Arrow Panels, design standards, power supplies, application and placement, cost & maintenance, and recommendations. The second video describes the purpose of barriers, problem of visibility and the solution, delineation standards, delineation devices and techniques, end treatments and delineation, maintenance considerations, and selection of devices.

S/T-046 BACK SAFETY - SLIPS TRIPS & FALLS - HEAT STRESS
VALLEY VIDEOS, INC.
15:00

- Back Safety - (5:00) This part discusses proper lifting techniques, good posture, moderate exercise, and weight control.
- Slips Trips & Falls - (5:00) This part discusses how to avoid slips, trips, & falls. Precautionary methods & markings are discussed.
- Heat Stress - (5:00) This part discusses how heat affects the human body, health hazards caused by heat stress, & preventive measures.

S/T-001 BASIC TRAFFIC CONTROL
INSTITUTE FOR TRANSPORTATION RESEARCH & EDUCATION (ITRE)
10:32

This videotape describes the basic traffic control measures that must be in place before any road repair activities can begin. Proper work site traffic control for the safety of the work crew and the traveling public are discussed.

S/T-002 BEST DEFENSE..IS A GOOD ROAD, THE
FEDERAL HIGHWAY ADMINISTRATION/NACE
15:00

The potential legal ramifications of inadequate highway maintenance, record keeping procedures and documentation are discussed. It draws comparisons between the apparent maintenance costs and the true costs when legal liability is considered.

S/T-003 BETTER INDUCTIVE LOOP DETECTORS
FEDERAL HIGHWAY ADMINISTRATION/NEW YORK DOT
15:00

This video presents a summary of state-of-the-art procedures for loop detector installation including methods of placing, types of wiring, and installation techniques for loop detectors.
S/T-026 BREAKAWAY SIGN PROGRAM
NEW JERSEY DEPARTMENT OF TRANSPORTATION
11:36

This videotape discusses the construction and installation of the New Jersey breakaway sign support system.

S/T-004 BREAKAWAY TIMBER UTILITY POLES
FEDERAL HIGHWAY ADMINISTRATION
15:00

Crash test and actual installation by a utility crew of the breakaway apparatus is demonstrated. It also urges further field testing and utility company research and suggests means of federal funding of pole installation.

S/T-005 C.A.R.E ABOUT SAFETY
OKLAHOMA DEPARTMENT OF TRANSPORTATION
18:00

The need to follow safety procedures and be aware of safety precautions is emphasized in this videotape and presented in an effective dramatic illustration of an automobile/flagger accident.

S/T-006 CAUTION, LITIGATION AHEAD: THE ROAD TO EFFECTIVE RISK MANAGEMENT
FEDERAL HIGHWAY ADMINISTRATION
25:00

This video attempts to motivate state and local highway officials to implement effective risk management programs to improve highway safety and mitigate the risk of tort liability.

S/T-034 CHAIN SAW SAFETY
LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
45:00

This videotape was developed by the Louisiana Department of Transportation and discusses chain saw safety measures.

S/T-052 CONFINED SPACE ENTRY TRAINING: CLASS I ATMOSPHERES
MINNESOTA DEPARTMENT OF TRANSPORTATION
10:00

Class one atmospheres are discussed and defined in this training video. Explanations of the permits and procedures required to enter class one atmospheres are explained in detail.

S/T-007 CONSOLIDATED SAFETY VIDEO
JOHN DEERE COMPANY
1:24:00

This tape is a consolidation of eleven segments of safety videos. The segments review the risks involved with different types of farming equipment if safety procedures are not followed. In addition, other segments focus on the tractors, type of dress required, consideration of the work area, and in the area, especially children.

S/T-008 CONSTRUCTION WORK ZONE LIABILITY
FLORIDA DEPARTMENT OF TRANSPORTATION
This videotape reviews the liability as it applies to construction work zones and court liability in transportation.

S/T-071 DANGER SIGNS
AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA)

This video covers the consequences of vandalizing signs and what to do if you see a sign that is damaged.

S/T-036 EVERYTHING TO LOSE
CATERPILLAR
21:00

This videotape discusses safety in plant areas and working around shop equipment.

S/T-076 EXCAVATOR SAFETY: “MORE THAN YOU’D EVER WANT TO SINK YOUR TEETH INTO”
KOCH INDUSTRIES, INC.
13:16

This video shows proper techniques for excavating near pipelines.

S/T-009 FLAGGER, THE
WASHINGTON STATE DOT
43:00

An entertaining, detailed tape defining the importance of proper flagging techniques for roadway traffic. Targeted to flaggers.

S/T-038 FLAGGING PROCEDURES & OPERATIONS
MINNESOTA DOT
14:00

This videotape discusses flagging procedures & operations, proper equipment use, and advanced warning signs, etc. Situations discussed include advanced flagging, single flagger operation, two-flagger operation, nighttime flagging, one flagger/one direction, & emergency situations.

S/T-065 FLAGGING SAFETY
CONNECTICUT DOT
30:00

This is Connecticut DOT’s guide to the use of flaggers in work zones. The video discusses where and when to use flaggers, the attributes of a good flagger, the flagger’s role in promoting good public relations, safety equipment and clothing, the use of the stop/slow paddle, the flagger’s position in the work area, flagging in a moving operation, hand signals, emergency procedures, and communications with other flaggers. The video concludes with a review of the main points presented. The video utilizes mostly scenes from two-lane roads.

S/T-078 FLAGGING, You’re the Director
Coastal Video Communications
17:00
The requirements needed to meet standards as outlined in the Manual of Uniform Traffic Control Devices (Part VI) are shown and applicable to ALL who could be held liable in the event of a collision, injury, or death in a Work Zone. This video reinforces the need for proper clothing, equipment, and positioning in addition to applications in unusual situations.

S/T-064 FLAGPERSON CERTIFICATION
Virginia Department of Transportation
12:35
This video is a presentation on the responsibilities of being a flagger in traffic control and work zone areas.

S/T-045 GRADE CROSSING SAFETY - Physics 101 - for Professional Drivers
OPERATION LIFESAVER
26:00
This videotape reminds the professional driver of the dangers inherent at highway/rail crossings and the proper precautions to be taken at these critical intersections. This program also notes the precautions taken by train crews in an effort to avoid crashes.

S/T-055 HANDLING HOT MIX ASPHALT
NATIONAL ASPHALT PAVEMENT ASSOCIATION
15:55
This video explains the proper procedures that should be followed when handling hot mix asphalt.

S/T-070 HARMFUL MATERIALS AWARENESS FOR MAINTENANCE WORKERS
PENNSYLVANIA DOT
21:11
This video discusses the correct procedures for handling various harmful materials.

S/T-027 IMPACT RECOVERY SYSTEM
FLASHER EQUIPMENT COMPANY (FEC)
This video shows testing done by the Texas Transportation Institute on five major types of work zone traffic control devices utilizing "Impact Recovery Systems," designed and constructed by the FEC of San Antonio, Texas. The key feature of these proprietary work zone traffic control services is a spring-loaded mechanism that allows the traffic control device, upon impact by an errant vehicle, to return to the pre-impact position.
S/T-056A-C INTERNATIONAL ROAD FEDERATION’S VIDEOTAPE JOBSITE SAFETY SERIES (THREE VIDEOS)
U.S. DEPARTMENT OF TRANSPORTATION
1:10:00

The following three videos are contained in this series:

- **WORK ZONE SAFETY CONCEPTS** (25:00) - This video covers the basic principles of work zone safety, traffic control zones, planning for traffic control, the function of traffic control devices and typical applications.
- **DEVELOPING JOB SITE TRAFFIC CONTROL PLANS** (21:00) - In this video methods are described on how to develop an effective traffic control plan.
- **INSTALLATION, INSPECTION, AND MAINTENANCE OF WORK SITE TRAFFIC CONTROL DEVICES** (24:00) - This video covers the installation, inspection and maintenance of traffic control devices at a basic worksite based on a traffic control plan.

S/T-057A-G INTERNATIONAL ROAD FEDERATION’S VIDEOTAPE TRAFFIC CONTROL SERIES (SEVEN VIDEOS)
U.S. DEPARTMENT OF TRANSPORTATION
2:27:00

The following seven videos are contained in this series:

- **WORLDWIDE TRAFFIC SIGN SYSTEMS OVERVIEW** (26:00) - This video covers the types and purposes of common signs and reviews the basic design elements for all sign systems.
- **MARKINGS AND ISLANDS** (19:00) - This video covers the design and application of markings and islands.
- **TRAFFIC CONTROL FOR SCHOOLS, RAILROAD CROSSINGS, AND BICYCLE FACILITIES** (24:00) - This video covers traffic controls under three traffic control conditions requiring extra safety considerations: schools, railroad crossings and bicycle facilities.
- **SPECIAL USE TRAFFIC CONTROLS** (17:00) - This video covers special use traffic controls. These devices address potentially hazardous traffic conditions that are not covered elsewhere in the traffic control series.
- **TRAFFIC CONTROL SIGNALS AT INTERSECTIONS** (18:00) - This video describes basically how engineers determine if a signal is needed, how signal controller phasing works, and how signal timing works.
- **TRAFFIC SIGNS PLACEMENT AND LOCATION** (22:00) - This video covers the placement and location of signs in the general and specifically at their placement and location in three areas: urban, rural, and freeways.
- **TRAFFIC SIGNS INSPECTION AND MAINTENANCE** (21:00) - This video covers sign inspection and maintenance.

S/T-032 INTERSECTION DESIGN AND SAFETY IMPROVEMENTS
UNIVERSITY OF WISCONSIN
TAPE 1 APPROX. 2:00:00
TAPE 2 APPROX. 2:00:00

These two videotapes were delivered from Wisconsin via satellite to the Christa McAuliffe Education Center in Baton Rouge on December 3, 1992. The video emphasizes intersection design and safety improvements that can help reduce accidents.
Traffic signal management is about taking the existing traffic signal already in place and using available tools, techniques, and in some cases improved equipment to more efficiently utilize our city streets and signal systems. With traffic signal timing you can reduce cost while increasing street capacity and safety.

Since 1969, the American Traffic Safety Association (ATSSA), an international trade association, has represented companies and individuals in the traffic control and roadway safety industry. ATSSA members provide the majority of traffic safety services and materials used on our nation’s roadways, such as striping, signage, lighting, drums, cones, barricades, and guardrails. ATSSA is leading the way on important roadway safety issues, with heavy emphasis on work zone traffic control, pavement marking, signing, and traffic control safety devices.

This video provides and explains the methods available for the prevention of accidents. Techniques and suggestions are made on the prevention of accidents in and out of the work place.

This videotape presents testing results on the location and type of support for mailboxes along highways to minimize damage and injury.

The objective of this video is to help reduce financial losses from accident-related lawsuits by making maintenance personnel more aware of the type of highway deficiencies that can lead to traffic accidents.

In this videotape the problems associated with sign management such as vandalism and outdated signs are discussed. Also reviewed are the benefits of good sign management, the liability of the department when signs are not maintained or inspected and the components of sign management programs.
S/T-041 NEW WORK ZONE SAFETY DEVICES  
STRATEGIC HIGHWAY RESEARCH PROGRAM (SHRP)  
17:04

This videotape discusses how to set up SHRP’s new work zone safety devices, and the advantages of these new devices.

S/T-073 NIGHT LIGHTS How Retroreflectivity Makes Our Roads Safer  
AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION  
20:00

“Night Lights” is an important must-see video for all motorists. The video clearly explains the benefits of "retroreflectivity" - the quality of roadway signs and other lifesaving materials and products along our nation’s roadways to function in both daytime and nighttime conditions. Retroreflectivity allows light from vehicles’ headlights to be redirected back to drivers, enabling them to see the signs at night. A range of driving scenarios is presented in the video to help illustrate the necessity of this important roadway feature. The video also explains the technology involved in the retroreflective process in easy-to-understand, non-technical terms.

S/T-013 NIGHTTIME TRAFFIC CONTROL  
AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION  
18:00

This videotape shows why nighttime work areas are more hazardous than daylight areas and demonstrates methods which can be taken to provide safe traffic control.

S/T-024 OPEN ROADS: A LOOK AT FREEWAY INCIDENT MANAGEMENT  
FEDERAL HIGHWAY ADMINISTRATION  
18:58

This videotape presents, in clear, non-technical language, the current state-of-the-practice of freeway incident management and is intended for viewing by top-level management, elected officials, citizen groups, and other interested parties.

S/T-043 PAVEMENT MAINTENANCE & WORKER SAFETY  
STRATEGIC HIGHWAY RESEARCH PROGRAM (SHRP)  
16:07

This videotape summarizes SHRP products produced to improve efficiency of pavement maintenance operations and work-zone safety.

S/T-014 PEDESTRIAN SAFETY: WHAT YOU CAN DO  
FEDERAL HIGHWAY ADMINISTRATION  
17:00

This videotape explains what can be done to ensure the safety of the pedestrian.
This video demonstrates the proper method of selection, inspection, and use of hand tools and portable power tools. The video emphasizes exercising good judgement and remembering safe operating procedures.

- Part 1 - Basic Principles
- Part 2 - Basic Procedures
- Part 3 - Applications

This video shows the Quickchange Moveable Barrier system designed to increase safety and reduce traffic congestion. The first "moveable barrier" was designed as a work zone safety device. This unique technology allows for the safe, rapid and frequent movement of millions of pounds of safety-shaped concrete barrier across the roadway.

The Quickchange Moveable Concrete Barrier system is a new technology that can provide dynamic capacity in a freeway corridor. This video shows how the system works on I-30 contraflow HOV lanes in Dallas, Texas.

This video is a presentation on the concept of controlling the number of vehicles that reach the freeway and the time at which they reach the freeway in order to preserve the capacity of the freeway.

This video is a presentation of the hazards incurred when drivers do not pay heed to traffic signals.

This videotape discusses safety methods used on roads & highways. The tape was made to increase awareness of the important role pavement markings play in traffic safety and to raise a concern that vital safety issues need the attention & involvement of the public & government agencies.
This is a video workshop covering various aspects of the risk management process. Individual sections are on separate tapes.

Section 3: negligence and liability (51:36)
Section 4: examples of tort related lawsuits (35:19)
Section 5: high risk areas (PART 1 (52:19) - PART 2 (49:02))
Section 6: methods of reducing risk of roadway tort liability (PART 1 (48:06) - PART 2 (28:26) - PART 3 (11:00))
Section 7: data collection (37:05)
Section 8: accident reduction program (PART 1 (1:02:34) - PART 2 (24:00))
Section 9: the effects of alcohol & other drugs on drives (PART 1 (33:07) - PART 2 (18:54))
Section 10: programming roadway improvements (PART 1 (33:12) - PART 2 (17:23))

S/T-033 SAFER ROADSIDE
WASHINGTON STATE DOT
17:22

This videotape discusses the Washington State Department of Transportation's policy for controlling utility use of highway right-of-way. It is an update of a videotape entitled "The Safer Roadside", widely distributed in 1989.

S/T-062 SAFETY BELTS: FACT OR FICTION
USDOT, NATIONAL TRAFFIC HIGHWAY SAFETY ASSOCIATION
15:00

This video presents the many facts of why you should wear safety belts.

S/T-023 SAFER ROADSIDE, THE
WASHINGTON STATE DOT
16:00

This videotape describes Washington State DOT's comprehensive program for making roadsides safer. The DOT worked with the utility industry to develop a cost-effective approach to setting policy guidelines and determining the control zone for placing utility poles.

S/T-016 SAFETY BY ASSOCIATION
SAFETY SERVICES ASSOCIATION
11:00

This video stresses the importance of safety and provides a description of the American Traffic Safety Services Association.

S/T-017 SAFETY FEATURES FOR LOCAL ROADS AND STREETS - 2 PARTS
FEDERAL HIGHWAY ADMINISTRATION
2:00:00

Parts 1 & 2 show a series of crash tests for the following situations: wet weather accidents; sideslope and ditch tests; roadside culverts and cross road incline tests; small sign supports; traffic barriers on slope crash tests; guardrail end treatment; engineering for highway safety; California freeway crash cushion accidents; bridge railing and transition crash tests; and bridge railing retrofit.
This video discusses the problem of school zone safety in urban areas. The focus of this video is on school age pedestrian accidents. Several methods and techniques are presented to help reduce school zone accidents.

This video (and handbook) provides the basic information necessary to set speed limits on municipal roads and streets.

This video suggests procedures to track and prioritize signs, and discusses the proper use of traffic control devices and equipment.

This videotape discusses machine safety, danger signals, and precautions.

This videotape presents economic, environmental, and safety benefits of employing advances in snow and ice control techniques developed by SHRP. Summarizes localized weather forecasting programs, anti-icing techniques, utilization of snow fences, and snow plows of the future.

This videotape provides a complete illustrated description of a road weather information system (RWIS).

This videotape discusses the testing and field inspection of roadway delineation. Delineation is a device or combination of devices that provide regulation, guidance and information to the driver. These devices include pavement markings, highway signs, and post mounted delineation.

S/T-059 THE 2ND ANNUAL VALVOLINE NATIONAL DRIVING TEST-VOLUMEI&II
This video demonstrates the proper techniques a driver should use in order to be a safe and responsible driver. The video is presented in the form of a test.

**S/T-025 THIN ORANGE LINE: INSPECTING WORK TRAFFIC CONTROL**  
**AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION, INC.**  
32:00

- Part 1 - 12:00
- Part 2 - 20:00

This videotape goes over procedures and guidelines that are to be followed in work zone traffic control zone.

**S/T-022 "TO WARN, GUIDE AND PROTECT" AN INTRODUCTION TO FLAGGING**  
**NEW MEXICO ST. HIGHWAY & TRANSPORTATION DEPARTMENT**  
21:50

This video tape produced jointly by the New Mexico Technology Transfer Center and the New Mexico State Highway and Transportation Department on the subject of flagging. The information presented is based on national standards and should be useful to any agency that needs to flag traffic.

**S/T-058 TOW TYPE SWEEPER OPERATIONS; PNEUMATIC TIRE ROLLER OPERATIONS; ROLLER; STEEL WHEEL ROLLER OPERATIONS**  
1:18:00

This video explains the proper procedures that need to be followed when using various types of rollers.

**S/T-018 TRAFFIC BARRIERS**  
**FEDERAL HIGHWAY ADMINISTRATION**  
46:27

Overview of 5 programs: cable barrier, box beam barrier, w beam and wood-street strong post, concrete barrier, and traffic barrier terminal (installation, maintenance and repair of end treatments) systems.

**S/T-019 TRAFFIC CONTROL FOR THE SHORT TERM WORK ZONES - 5 PARTS**  
**MINNESOTA DEPARTMENT OF TRANSPORTATION**  
2:00:00

This videotape reviews traffic control in construction zones and includes flagging operations.

- Part 1 - introduces types of work zones
- Part 2 - discusses traffic control devices and their proper installation
- Part 3 - discusses the criteria for correct placement devices
- Part 4 - graphically demonstrates the recommended locations of signs and barriers
- Part 5 - discusses procedures and operations.
S/T-020 TRAFFIC SIGNAL SYSTEMS: GO FOR THE GREEN I & II
FEDERAL HIGHWAY ADMINISTRATION
28:20

Part 1 - 13 minutes - This tape, intended for the general public and local officials, provides a brief introduction and overview of traffic signals.
Part 2 - 15 minutes: 20 seconds - This tape addresses traffic signal systems in more technical terms and provides traffic engineers and signal technicians with an understanding of the best practices for optimizing urban traffic flow.

S/T-050 TRITON BARRIER
ENERGY ABSORPTION SYSTEMS, INC.
6:33

This video explains the advantages of the Triton Barrier System. The Trigon Barrier is one of the first crash-worthy barriers to meet the design criteria of NCHRP 350. This barrier provides protection for work crews, while preventing errant motorists from entering dangerous work areas. An illustrated publication is provided with the video.

S/T-054 WHAT’S HOT MIX ASPHALT
NATIONAL ASPHALT PAVEMENT ASSOCIATION
11:15

This video explains what hot mix asphalt is and how it can be used.

S/T-044 WORK ZONE SAFETY FOR RURAL LOCAL AGENCIES
UNIVERSITY OF NORTH CAROLINA
1:42:00

- Part 1 - (17:00) - Introduction: Dramatically emphasizes the need for safety in work zones to help reduce the risk of accidents in day time operations. This part covers the basic concepts for planning and implementing safe work zones.
- Part 2 - (17:00) - Traffic Control Devices: Discusses the elements of design, proper application and placement of traffic control devices. It covers the signs, channelization devices, barricades, warning lights, arrow panels and portable variable message signs.
- Part 3 - (15:00) - Traffic Control Zones: Examines the five traffic control areas - advanced warning, transition, buffer, work zone and termination.
- Part 4 - (16:00) - Typical Applications: Illustrates traffic control schemes for some common types of operations - work in the shoulder on two-lane roads, two-lane roadway lane closure, urban four-lane undivided highway, four-lane divided highway and moving operations.
- Part 5 - (13:00) - Flagging: Covers the responsibilities of flaggers, including attire, equipment and skills. It also illustrates some typical situations faced by flaggers - advance flagging, nighttime flagging, one direction of traffic flagging and emergency flagging.
- Part 6 - (15:00) - Legal Liability: Illustrates the importance of liability issues. It outlines steps to take to prevent liability in work zones - having a traffic control plan for each job; following the MUTCD; minimizing traffic disruptions; promptly removing traffic control devices no longer needed; training all personnel; having an inspection program; and documenting all work.
- Part 7 - (8:00) - Typical Work Day: This part shows a general sample of what a work day might be like.
This video covers the three principal players in work zone areas. The workers and their responsibilities; the drivers, what they expect and how we can best guide and direct; and the pedestrian, and what we must do to keep them safe.

Part 1 covers (a) stationary short term operation on a two lane, two way roadway and, (b) a slow moving daylight operation on a two lane, two way roadway with a single flagger.

Part 2 covers (a) a stationary short term temporary operation on a three lane, two way roadway with a center lane, and (b) a stationary slow moving short-term operation on a divided or one way highway. In addition, it describes use of each, and defines barricades and barriers.