South Carolina Transportation Technology Transfer Service

2006 Video Catalog

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Video Lending Library
Operating Procedures

This catalog contains a listing and description of the various videotapes, CDs, and DVDs available from T^{3}S at Clemson University. The Transportation Technology Transfer Service is sponsored by the Federal Highway Administration and by the South Carolina Department of Transportation as part of the Local Technical Assistance Program (LTAP).

The videotape library consists of approximately 300 tape titles covering the areas of transportation and other related topics. Each of the tapes has been assigned a number and been grouped into a major category. Major categories have been established for ease of use and are listed in this catalog for convenience.

Videos, CDs, and DVDs are available on loan for two weeks at no cost, or they may be purchased from the Transportation Technology Transfer Service for $12.00 each unless they are copyright protected. For more information, call (864) 656-1456, or toll free 888-414-3069, provide your address, and identify the tape that you wish to purchase or borrow. Alternatively, you can obtain the videotapes by completing and returning the videotape request form shown in this catalog.

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Bridges

1.01 Bridge Deck Overlays
SHRP, Length: 19

Explains bridge deck overlays in four major parts: deck condition, materials, surface preparation, and overlays placement.

1.02 Bridge Evaluation and Posting
FHWA, Length: 38

Inspecting, maintaining and evaluating bridges to review elements of bridge management and importance of bridge evaluation.

1.03 Building Partnerships-Building Bridges: The Isle of Palms Connector
SC DOT/FHWA, 1992, Length: 14

Describes the cooperative effort used by concerned federal, state, and local agencies in planning, and designing the Isle of Palm Connector across an environmentally sensitive salt marsh on the South Carolina coast.

1.04 Cleaning & Clearing of Bridges
FHWA, 1985, Length: 13

Describes the techniques used in the cleaning and clearing of bridges.

1.05 Concrete Bridge Deck Repair
IRF, 1985, Length: 18

Describes concrete bridge deck repair tools and equipment used for cutting, cleaning, preparing, placing, furnishing, and curing concrete.

1.06 Hardwood Anyone?
Penn DOT, 1988, Length: 10

Describes how to use hardwood as a building material for local bridges.

1.07 Modern Timber Bridges: A New Return For Old England
RI DOT/Timber Bridge Initiative, Length: 30

Describes how to use under-utilized timber resulting in cost savings in materials. Shows how timber bridges can achieve the same traffic load bearing capability as steel and concrete.

1.08 Prefabricated Timber Bridge Deck Panels
USDA Forest Service, Length: 26

Illustrates a relatively low-cost method for fabrication of timber decks over steel girders using methods developed by John Smolen, County Engineer for Ashtabula County, Ohio.

1.09 Timber Bridge #2
Penn DOT, 1991, Length: 28

Describes different stages (design, selection, fabrication, construction, and evaluation) that are necessary in the construction of timber bridges.

1.10 Pennsylvania Bridges: Maintaining the Past- Preserving the Future

FHWA, Length: 10

Describes variety of bridge remodeling projects to preseve history and maintain structural integrity of the bridge.

Equipment Maintenance

2.01 Driver Daily Maintenance of Light vehicles
IRF, 1985, Length: 18

Illustrates pre-start check for tires, leaks, worn parts, fluid levels; warm-up check for odometer, noises, gauges, lights, steering and brakes; daily operation for noises and performance; shutdown by fueling, cleaning, setting brakes and locking vehicles.

2.02 Operator Daily Maintenance of Asphalt Distributors
IRF, 1985, Length: 17

Discusses daily maintenance of asphalt distributors; pre-start, warm-up, daily operation and shutdown requirements.

2.03 Operator Daily Maintenance of Crawler Tractors
IRF, 1985, Length: 21

Describes pre-start check for damaged and worn parts, fluid levels and leaks, filter system, tracks, pins, bushings; warm-up check for unusual noises, gauges; shutdown check for parking, resting hydraulics on ground, brakes, idling engine, fueling and greasing the tractors.

2.04 Operator Daily Maintenance of Dump Trucks
IRF, 1985, Length: 20

Shows pre-start check for tire pressures, damaged and worn parts, fluid levels and leaks; warm-up check for gauges, lights, hydraulic steering and brakes; operating check of unusual noises, gauge levels and performance; shutdown by parking, fueling, cleanup, idling engine and taking hour meter readings.

2.05 Operator Daily Maintenance of Front End Loaders
IRF, 1985, Length: 19

Describes pre-start checks for fluid leaks and levels including coolants; warm-up, checking gauges and hydraulics; daily operation for performance and shutdown by fueling, greasing and cleaning.

2.06 Operator Daily Maintenance of Motor Graders
IRF, 1985, Length: 21

Illustrates pre-start check for damaged parts, fluid levels and leaks, hydraulics, cooling and filters; warm-up check for noises, gauges, brakes and hydraulics; daily operation for noises, gauges and performance; shutdown including fueling, clean-up, brakes, meter readings and greasing.

2.07 Operator Daily Maintenance of Rollers

IRF, 1985, Length: 22

Discusses methods and procedures for operation of rollers, including pre-start check for damaged parts, leaks and filters; warm-up check for noises, steering, gauge check, sprinkler system; daily operating check for noises and performance; shutdown procedures for brakes, readings, fueling, lubrication, and cleaning.

2.08 Motorgrader Preventive Maintenance

New Mexico Hwy & Transp. Training Academy, Length: 12

Describes the start-up, warm-up, operating and shutdown procedures for motorgraders.

Equipment Operation

3.01 **Commercial Drivers License Series Parts 1, 2A & 2B**
Penn DOT, Length: 80

Part 1: Overview, Part 2A: Vehicle Inspection; Part 2B: Operating Techniques.

3.02 **Commercial Drivers License Series Parts 2C, 2D, 3, & 4**
Penn DOT, Length: 85

Part 2C: Operating Techniques 2, Part 2D: Vehicle Safety, Part 3: Transporting Cargo; Part 4: Transporting Passengers.

3.03 **Commercial Drivers License Series Parts 5, 6, & 7**
Penn DOT, Length: 110

Part 5: Air Brakes; Part 6: Combination Vehicles; Part 7: Hazardous Materials.

3.04 **Crane Operation**
Utah DOT, Length: 120

Presents methods and procedures for proper operation and maintenance of cranes, forklifts, and rotary mowers.

3.05 **Equipment Operation & Maintenance -- An Overview, Parts 1, 2, & 3**
Utah DOT, Length: 120

Describes methods and procedures for proper operation and maintenance of equipment. Video also presents specific methods and procedures for operating and maintaining the motor grader and loader.

3.06 **Front-end Loader Operations Parts 1 & 2**
Washington State DOT, Length: 36

Part 1: covers basic skills for operation of a front-end loader, including daily maintenance, start-up, and shut-down of the vehicle, daily controls, and maneuvering. Part 2: covers basic skills for operation of a front-end loader, including daily controls and maneuvering.

3.07 **Motograder Operation Parts 1, 2 & 3**
Washington State DOT, Length: 54

Covers motor grader basic information, start-up procedures, basic operation, shutdown, and operational techniques including grading unpaved roads, spreading material, laying asphalt, pulling ditches, and grading shoulders.

3.08 **Mower Operation Parts 1 & 2**
Nebraska DOT, Length: 30

Covers pre-trip inspection of engine, tires, oil leaks, lubrication, blades, basic operation check list, startup and shutdown procedures. Explains how to identify various problems.

3.09 Straight Blade Snow Plows
Utah DOT, Length: 117

This videotape presents methods and procedures for proper operation and maintenance of straight blade snow plows, highway sanders, and bulldozers. It also presents operational procedures for crack sealing and the use of the tar plot.

3.10 Tow Type Sweeper Operation
Utah DOT, Length: 95

Focuses on the daily checks and proper operation of a sweeper. Daily checks include walk around checks, engine, greasing, and brushing inspection. Proper operation of a sweeper includes the start up and hookup, sweeping, and the shutdown.

3.11 Weed Sprayer & Dump Truck Operation
Utah DOT, Length: 115

Presents methods and procedures for proper operation and maintenance of weed sprayers and dump trucks.

3.12 Tips from the Pros - Backhoe Loader
VISTA, Length: 16

Video outlines the purpose of backhoes on the job site. Also the video educates the operator on efficient procedures which will increase the production of the operator.

3.13 Tips from the Pros: Dozer
VISTA, Length: 18

Pro tips on efficent practices when using a crawler dozer. Useful when grading, piling, or moving large amounts of material.

3.15 Defensive Driving: 15 Passenger Vans
Coastal Training, Length:

DVD ONLY: Driving 15-passenger vans requires certain safety precautions. Understanding why these vans need special care will get you and your passengers to you destination safely.

Highway Safety

4.01 Aesthetic Bridge Rails & Guardrails
FHWA, Length: 8

Discusses the need to balance motorist safety with consideration for preserving the scenic beauty or historic character of an area. Crash tests demonstrate new innovations in bridge rails and guardrails.

4.02 Breakaway Sign Support System
New Jersey DOT, Length: 12

Documents the New Jersey Breakaway Design Support System built to prevent catastrophic outcomes when vehicles collide with highway appurtenances. Gives an overview of the design, function, and construction.

4.03 Breakaway Timber Utility Poles
FHWA, Length: 16

Describes retrofit design for timber poles, which FHWA research proves is an alternative for reducing traffic accidents related to utility poles in public rights-of-way.

4.04 Concrete Bridge Railings, the Modified Thrie Beam Guardrails & Cable Guardrails
FHWA, Length: 32

Discusses structural features, advantages/disadvantages. Crash testing and special features of concrete, thrie-beam, and cable bridge railings and guardrails.

4.05 Fit For the Road: Evaluating the Health of Commercial Truck Drivers
Idaho Department of Law Enforcement, Length: 20

Explains the part that physical and truck driving conditions have on safe vehicle operation.

4.06 Front Wheel Brakes: Dispelling a Myth
FHWA, Length: 9

Demonstrates that trucks with properly maintained front wheel brakes stop in shorter distances and maintain control. The vehicles were tested on a test track that was the equivalent of a wet and slippery secondary road.

4.07 Highway Safety Program
FHWA, Length: 62

Discusses nine different programs on a variety of highway safety issues. The topics covered include crash cushions, chevron signs, guardrails, highway-railroad crossings, pedestrian safety, pavement markings, freeway ramps, breakaway devices, and lane added signs.

4.08 Highway Safety: The Silent Factor
FHWA, Length: 43

Addresses the role of the FHWA in constructing and maintaining roads. Briefly covers the following highway safety improvements: crash cushions, highway barriers, pedestrian safety, pavement markings, breakaway devices, and more.

4.09 **Mailboxes May be Hazardous to Your Health**
FHWA/Texas DOT, Length: 14

Presents test results on the location and type of support for mailboxes along highways to minimize damages and injury.

4.10 **Making Safer Roads**
FHWA, Length: 12

Reducing the severity of common road accidents through identifying what aspects can be deadly and fixing them.

4.11 **Pedestrian Safety: What You Can Do**
FHWA, Length: 9

Explains various pedestrian safety programs. Illustrates common urban and rural pedestrian safety problems and identifies counter measures. Covers the 3 E's: engineering, education, and enforcement, to reduce pedestrian accidents.

4.12 **Right Before Your Eyes**
ATSSA, Length: 10

Discusses the role of pavement markings in promoting highway safety and the development of minimum maintenance standards for pavement markings.

4.13 **Right-of-way Mowing Safety**
FHWA, Length: 23

Covers how to deal with mowing hazards and how to expect the unexpected.

4.14 **Safer Roadside, The**
Washington State DOT, 1992, Length: 17

Illustrates procedures and guidelines to create a safer roadside. Goals are to eliminate fixed roadside obstacles and to shield or provide breakaway designs to give the driver a chance to recover.

4.15 **Safety Features for Local Roads & Streets : Parts I & II**
FHWA, Length: 120

Part 1: Includes wet weather accident problems, side slope and ditch tests, roadside culverts and crossroads incline tests, small sign supports, and breakaway light poles. Part 2: includes accident statistics, maintenance procedures, safety design standards, and clear zones.

4.16 **Traffic Barriers**
FHWA, Length: 46

Provides an overview of the general purpose and functions of various barriers for roadside, median, and bridge applications. Discusses design, installation, maintenance and repair of cable, box beam, "w" beam, and steel posts, including end treatments and crash cushions.

4.17 **Night Lights - How Retroreflectivity Makes Our Roads Safer**
ATSSA, Length: 16

Video explains the benefits of retroreflectivity, the quality of roadway signs, and other roadway materials and products that function in day and night for the motorists safety.

4.18 **Avoiding Collisions**
ARTBA, Length: 38

Three part training program for supervisors, workers, and highway equipment operators. Shows safety practices for workers to lower the risk of being struck on the highway.

IDEAS

5.01 **Idea Store - Part 1**
Penn DOT, Length: 8

Describes a level for checking road and crown, "no hands" hand level, storage rack for snow plow blades, identifying highway signs.

5.02 **Idea Store - Part 2**
Penn DOT, Length: 13

Describes an easy blade changing method for a motor grader, work zone traffic control tips, evaluating aggregate loss, winter service and junk day brochures, better beaver baffler.

5.03 **Idea Store - Part 3**
Penn DOT, Length: 10

Discusses a device to handle plow blades easier, a daily maintenance checklist for graders, easy to build pre-cast concrete walks for erosion control on riverbanks, a grader box for spreading hot-mix and a truck magnet for picking up yard metal.

5.04 **Idea Store - Part 4**
Penn DOT, Length: 10

Provides a source of information on novel ideas for specialized road operations, equipment, use and material applications in road works.

5.05 **Idea Store - Part 5**
Penn DOT, Length: 11

Provides sources of information on miscellaneous topics related to transportation operations. Topics includes safety headgear, tire pressure, and traffic signs.

5.06 **Idea Store - Part 6**
Penn DOT, Length: 17

Presents ideas concerning wild flowers, adopt-a-highway, light cages, fabricated posts, road scholars, signs, brainstorming box, and safety packet.

5.07 **Idea Store - Part 7**
Penn DOT, Length: 16

Discusses how ideas on equipment, engineering, and communication are shared in the Idea Store.

5.08 **Idea Store - Part 8**
Penn DOT, Length: 10

Various ideas by local agencies include medical decals to be placed on the hard hat instead of wearing a metal bracelet or pendant, a maintenance awareness and winter driving safety program with the message "Avoid Getting Plowed", warning lights to indicate fuel truck presence in maintenance garages, and a cart to ease installation of a snow-wing plow.

5.09 Idea Store - Part 9

Penn DOT, Length: 6

Development of a set of key tags to remind operators of the blind spots around various pieces of equipment.

Management Systems

6.01 Construction Management Series
FHWA, Length: 102

Provides information on how to implement and develop a construction management system and identifies basic functions of a construction management system.

6.02 Equipment Management Systems
FHWA, Length: 40

Presents material to assist managers in developing and implementing equipment management techniques.

6.03 Equipment Management Systems Series
IRF, Length: 54

This video gives an introduction to EMS, equipment inventory, equipment maintenance, parts and supplies management, financial management, equipment management information and sub-system and EMS implementation.

6.04 Highway Management Series, 1995
FHWA, Length: 85

Covers three systems PMS, BMS, MMS for maintenance, for cost effective rehabilitation and best use of available funds.

6.05 Maintenance Management Systems
FHWA, Length: 35

Shows how to develop, implement, evaluate, administer, ensure quality control and update a highway and right-of-way maintenance and management system.

6.06 Maintenance Supervisor's Responsibilities
Utah DOT, Length: 48

Presents methods and procedures for the maintenance of portland cement concrete pavements with respect to the maintenance supervisor's responsibilities. Also covers patching PCC with bituminous materials, patching PCC with PCC, and PCC joint sealing.

6.07 Open Roads: A Look at Freeway Incident Management
FHWA, Length: 20

A presentation in clear non-technical language on the practice of freeway incident management. It is intended to be viewed by top level management, elected officials, citizen groups, and other interested parties.

6.08 Pavement Management Systems
USACRREL, Length: 6

Explains the advantages of a pavement management system and also introduces several pavement management programs.

6.09 Pavement Management Systems for City & County Administrations

FHWA, Length: 17

Explains pavement management techniques using performance curves to indicate the index for determining maintenance requirements, use of comfort index, pavement life characteristics, rehabilitation strategies, cost of maintenance for various pavement conditions, pavement rating system, and the effect of traffic volumes on pavement and maintenance.

6.10 Pavement Management Systems for Local Administrations

FHWA, Length: 17

Discusses the benefits of implementing a pavement management system. Those benefits include assisting managers in making decision of where and when to repair roads. The best strategies and methods to repair these roads are then recommended.

6.11 Pavement Management with a Pencil

Deighton, Length: 10

Discusses Deighton's dRoadlog pavement management system. The dRoadlog does pavement management without the use of a computer. It also discusses the three steps to use dRoadlog: location reference survey, inventory and condition survey, and, optionally, point objects (bridges, culverts, etc..) survey.

6.12 Unsurfaced Road Management

USACRREL, Length: 9

Directed at management level personnel, county engineers and highway superintendents, and inspectors to ensure they understand the importance of accurate data collection.

6.13 Six Sigma Simplified- Tape #1

Length: 51

Presents an overview of six sigma and describes focus and benefits of using six sigma.

6.14 Six Sigma Simplified- Tape #2

Length: 56

Describes how to use six sigma to improve a process and how to use six sigma to help sustain new process success.

6.15 The Team Approach

TOASTMASTERS INTL, Length: 24

This video provides specific guidelines for team management , by setting up the examples of two very different teams: One that works well together and one that struggles for direction.

Tort Liability

7.01 Best Defense is a Good Road, The
FHWA, Length: 16

Discusses the importance of risk management by having a good management program. By inspecting, setting priorities, taking action, and documenting the action, the risk of tort liability is reduced.

7.02 Caution, Litigation Ahead: The Road to Effective Risk Management
FHWA, Length: 16

Discusses reasons why state and local officials should improve highway safety and reduce risk of tort liability.

7.03 Construction Work Zone Liability
3M, Length: 27

Explains the basics of tort liability and risk management, and the terms negligence and immunity. Specific emphasis is on highway construction zones.

7.04 How to Give a Deposition
Penn DOT, Length: 17

Tips and guidelines on giving depositions as well as who would be represented at the deposition, the importance of the deposition, and the atmosphere in which a deposition is given.

7.05 Local Government on Trial (2 tapes)
TRB, Length: 132

Part 1: Explains the legal process and defines legal terms in a tort liability case from the accident that initiated the legal process through the trial phase. Part 2: A mock trial based on a true case is used to give the viewers a chance to be the juror and give their own account of what they think should result as well as the actual findings of a court.

7.06 Project Documentation
NCHRP, Length: 10

Describes the importance of documenting projects and the five characteristics of good documenting (clear, concise, correct, complete, and concurrent).

7.07 Tort Liability - Mock Trial
Wyoming, Montana, and South Dakota T2 Centers, Length: 36

Mock trial demonstrates the importance of proper signage and training programs.

7.08 Torts are Everybody's Business
Penn DOT, Length: 5

Explains how everyone in a company or department can be liable for injuries they are not directly responsible for as well as how to help protect the company from law suits.

7.09 Making the Effort Works: Reducing Utility Delays During Construction

FHWA, Length: 19

Effective planning strategies and practices to reduce the possiblity of delays due to utilities during construction.

Maintenance

8.01 Cleaning of Lined Ditches, Culverts, & Catch Basins
Nebraska DOT/IRF, Length: 16

Demonstrates the proper procedures for the manual cleaning of lined ditches, culverts and catch basins. Procedure consists of placing traffic signs, assigning the work, removing and disposing of all debris and obstructions, inspecting for damage, minor repairs, cleaning work site, and removing traffic signs.

8.02 Common Maintenance Problems & Causes
IRF, Length: 21

How to maintain roads and reduce transportation costs by dealing with maintenance problems, such as potholes, cracks, heavy loads and water saturation, before they get out of hand.

8.03 Creating Meadows Through Road Maintenance & Construction
New Mexico LTAP, Length: 8

Introduces techniques for preventing erosion in meadows after road construction.

8.04 Finding Better Ways
SHRP, Length: 19

Describes four of the most common maintenance activities: pothole repair, spall repairs, cracksealing, and joint filling and sealing. These activities are presented in terms of extending repair life, speeding up repair time, and reducing motorist delay.

8.05 Guardrail Installation & Repair
Northwest T2 Center, Length: 20

Gives a historical review of the evolution in guardrail design standards. Shows the elements of the standard "W" beam section used in Washington and Alaska along with installation procedures and repair practices.

8.06 Highway Maintenance
Utah DOT, Length: 112

Presents an overview of highway maintenance. Includes procedures for traffic control in maintenance and in construction work areas.

8.07 Mechanical Cleaning of Unlined Ditches
FHWA/IRF, Length: 20

Provides a review of ditch structure, and the function and selection of equipment to be used depending on ditch conditions. Also, planning, traffic control, disposing of material, inspection, and clearing the site are covered.

8.08 Preventive Maintenance: Project Selection
FHWA/ FPP, Length: 14

How to choose which roads need maintenance before they are beyond repair.

8.09 Replenishing Earth & Gravel Shoulders

IRF, Length: 15

Describes nine steps for restoration of gravel shoulders by adding new material. Shows preparation of existing shoulder, placement and spreading of additional material and compacting the material. Discusses equipment and material and their proper uses.

8.10 Routine Structure Repair

Utah DOT, Length: 88

Concentrates on techniques for cleaning edges and ditches along roadside, repairing guardrails, mowing, chemical control for vegetation along the roadside, and maintenance drainage.

8.11 Contract Maintenance Series

FHWA, Length: 62

How contract maintenance is used around the world; how an agency decides, implements and develops a contract maintenance system.

8.12 Technical Advancements for Maintenance Workers: A General Overview

SHRP, Length: 12

Presents recent developments in the areas of pavement maintenance, safety, and snow and ice control.

8.13 Utility Cut Repair: Doing It Right

Minn LRRB, Length: 11

This video stresses the importance of the proper repair of utility cuts in pavements. Reviews possible causes of failed utility cut repairs, and proper procedure for conducting utility cut repairs.

Miscellaneous

9.01 Advantage I-75
Kentucky DOT, Length: 14

Describes IVHS pilot project to expedite truck traffic on I-75 corridor. Shows increased effectiveness of monitoring by state agencies to reduce number of truck stops at weigh stations.

9.02 Air Quality Conformity in Transportation Planning
LTAP, Length: 20

Explains the federal regulations that require local jurisdictions to comply with the Clean Air Act and the State Implementation Plan in the transportation planning process. Focuses primarily on the conformity process. In addition, the types of pollutants covered by the act are identified, and justifications for setting maximum allowable levels are discussed.

9.03 Autoscope Demonstration
Econolite Control Products, Inc., Length: 16

Describes how autospace works from the perspective of the video imagery taken by autospace input camera. Shows both an intersection and freeway demonstration.

9.04 Clemson Beaver Pond Leveler, The
Clemson Co-op Ext. Service, Length: 50

Developed to meet the following two goals: to suppress the problem of flooding agricultural and timber lands and to maintain or improve some of the benefits derived from beaver ponds and associated communities while preventing extensive flood damage.

9.05 Competitive Edge in Manufacturing, The
Autodesk, Length: 18

Discusses using Autodesk CAD software (Autosurf/Automill) to solve real world manufacturing problems.

9.06 Dateline NBC Rubber Asphalt Story
NBC, Length: 10

Discusses the hazard of used tires and an option to recycle this "trash."

9.07 Construction Back Safety
NCCER/Coastal, Length: 10

Easily-learned safety techniques to help maintain a healthy back for work and play.

9.08 Construction Trenching and Shoring
NCCER/Coastal, Length: 10

Provides information on safe trenching by covering site evaluation, protective systems, safety practices and emergency response for cave-ins.

9.09 **ENS**
FHWA, Length: 17

Informs about basic elements of a viable mayday system and what should be included in order to attend to accidents.

9.10 **Featherfoot Film**
AIDE, Length: 30

Teaches drivers how to improve the fuel efficiency of their vehicles by changing their driving habits.

9.11 **Fit to be Tied**
FHWA, Length: 9

Introduces the procedure of retrofitting plain jointed PCC with dowel bars in a cost effective way, and the steps to determine if retrofitting is for you.

9.12 **Forum of Major Factors Affecting Asphalt Concrete Pavements**
FHWA, Length: 90

Abridged version of a forum held on Sunday Jan. 11, 1998 preceding the 77th annual meeting of Transportation Research Board to bring attention to some of the factors concerning asphalt concrete pavements.

9.13 **Guiding the Future**
3M, Length: 7

Discusses how 3M StaMark high performance tape, series 380, was designed to help drivers react to difficult situations and to anticipate them in time.

9.14 **Innovative Tumbleweed Removal**
New Mexico LTAP, Length: 7

Discusses an innovative way to remove tumble weeds on the roadside.

9.15 **IVHS: A Smart Choice**
FHWA, Length: 13

Focuses on Advanced Traffic Management Systems, Advanced Driver Information Systems, Commercial Vehicle Operations, and Advanced Vehicle Control Systems.

9.16 **LP Gas: Know the Facts**
FHWA, Length: 11

Explains the characteristics of LP gas; proper filling of cylinders, inspection for leaks, correct storage and proper handling and maintenance of cylinders.

9.17 **Minnesota Local Road Research Board**
Minn. LRRB, Length: 12

A presentation of the Minnesota Local Road Research Board (LRRB). The objective of this video is to provide an overview of the history and function of the LRRB and to initiate public engineers and others to participate in LRRB activities.

9.18 **Partners in Education**
Summer Transportation Institute, Length: 9

Describes bond to help meet future transportation needs with tomorrow's work force.

9.19 Penn DOT Advantage, The
Penn DOT, Length: 10

A training video that addresses the recruitment of civil engineers by the Pennsylvania Department of Transportation.

9.20 Rainline
Rainline Corporation, Length: 10

Describes a highway line striping process by Rainline that is visible even in heavy rain.

9.21 Roadeo
New Mexico State DOT, Length: 8

Discusses the department's annual equipment rodeo in which equipment operators from the department's six districts compete in skill tests on various types of roadway maintenance and construction heavy equipment.

9.22 SHRP Now Exhibit 1991 AASHTO Technology Transfer Fair
SHRP, Length: 58

Covers SHRP research and activities in worker safety, snow and ice control, maintenance, concrete, asphalt, and long term pavement performance.

9.23 SI Metric for the Workplace: Lesson 2: Units of Measure
Work Place Training, Length: 17

To understand two base units and their common prefixes, describes the metric standard for measuring.

9.24 Shooting Good Video
Western Federal Land Highway Div, Length: 8

Tips for creating your own video to document construction techniques, train employees, or to be used in court if necessary.

9.25 Stevens Creek Watershed
RC&D, Length: 13

Information about a watershed in Western Upstate South Carolina, some problems common to all watersheds, and some solutions to those problems.

9.26 Training: The Obscured Advantage
LTAP/FHWA, Length: 6

The Local Technical Assistance Program (LTAP) of FHWA provides training that can help develop professional, motivated, productive, and safe employees. Training is the key to prevention of accidents and injuries.

9.27 MSDS
COASTAL, Length: 20

Defines meaning and uses of MSDS in the workplace. Shows safety practices that relate to the MSDS handbooks.

9.28 Defensive Driving- A Crash Course
COASTAL, Length: 16

The video reviews scenarios for the viewer and presents the best and worst cases of defensive driving.

9.29 Public Works Mutual Aid
New Hampshire DOT, Length: 15

Describes the New Hampshire Public works Mutual Aid Program in which local governments agree to provide equipment and personnel to other members when needed during and after an emergency.

9.30 Paving Site Work Practices for Quality
NAPA, Length: 30

Effective paving practices and quality procedures when operating paver and roller equipment.

9.31 Comparable Concepts for Replacement Housing
FHWA, Length: 30

This video addresses the essential things to be considered while relocating the occupants from the existing structures according to the Federal regulations.

9.32 Getting Across: Aquatic Organisms and Road-Stram Crossings (A Brief Introduction)
USDA Forest Service, Length: 6 Min

Introduces the aquatic organism passage at road-stream crossings

9.33 Getting Across: Aquatic Organisms and Road-Stream Crossings (General Overview)
USDA Forest Service, Length: 16 Min

Provides a general overview of aquatic organism passage at road stream crossings.

9.34 Lifelines: Your National Forest
USDA, Length: 34 min

DVD Only: Length:32min: Explores the relationship between people and the land as it celebrates the partnership between USDA Forest Service, Federal Lands Highway Adminstration, and state and local communities in providing continued stewardship and access to national forests.

Planning

10.01 **Emergency Relief**
FHWA, Length: 17

Describes the emergency relief program created by FHWA, how to perform temporary emergency relief operations, and how to apply for funds.

10.02 **Environmental Protection Issues**
NCHRP, Length: 15

Describes environmental concerns, environmental documents, and engineering plans and how they can affect a project. Also discusses environmental laws and legal troubles if overlooked.

10.03 **Subdivisions: A Local Dilemma**
Montana State Univ. T2 Center, Length: 28

Describes the problems associated with the development of new residential subdivisions in cities and urban areas. Although the material discussed is oriented toward conditions in Montana, the tape covers basic principles of subdivison planning and regulation that would be applicable to other areas.

Transit

11.01 **Part 1 — Metromover**
Dade County Transpo. Admin., Length: 20

Part 1: Discusses the benefits of the metromover in the central business district of Miami, Florida.

11.02 **Part 2 — Public Transportation: A Private Solution**
The Blackwell Corp., Length: 20

Part 2: Discusses how private enterprise is meeting the needs of public transit in some of the major cities in the US. Discusses innovation, efficiency, and local answers to local needs.

11.03 **Primadonna Monorail System**
VSL Corp., Length: 5

Discusses the fully automated people mover connecting Primadonna and Whisky Pete's in South Stateline, Nevada. It was designed and built by the VSL Corporation.

11.04 **Shuttle Transit — Moving People**
Otis, Length: 8

Discusses the automated transit system developed by Otis in Tampa, Florida. Transit system is driven by cables and on films of air.

11.05 **Transrapid Magnetic Levitation**
Transrapid International, Length: 7

Discusses the new transrapid magnetic levitation train developed and tested in Germany.

Roadway Construction

12.01 **Hot Mix Asphalt Construction**
Joint Training Program/NAPA, Length: 11

Indicates some of the reasons for poor road maintenance, such as: miscommunication, distrust, or local claims. The objective of this video is to emphasize using "the common language" and best construction practice to build high quality roads.

12.02 **Lime - The Versatile Stabilizer in Construction**
National Lime Association, Length: 26

Describes the various applications of lime as a stabilizing agent in roadway construction. The primary emphasis is a discussion and illustration of the use of lime in stabilizing plastic clay soils for road sub-grade preparation.

12.03 **Subsurface Utility Engineering: A Technology for the 90's**
FHWA, Length: 13

Discusses the utility relocation problem in highway construction. New technology is presented for locating underground utilities in a timely fashion and avoiding conflicts by efficient and cost effective handling of the problem.

12.04 **Subsurface Utility Engineering: A Proven Solution**
FHWA, Length: 16

Discusses a solution to the problem when underground utilities are encountered at a construction site that no one knew were there.

Roadway Design

13.01 Basics of Local Road Engineering
Cornell Local Roads Program, Length: 60

Provides an overview of the basic concepts of local road engineering. Discusses the proper design, construction, and maintenance principles for local roads. Material on capacity, alignment geometry, drainage, pavements, and safety is also covered.

13.02 Design of Embankment on Soft Foundations: Basics of Local Road Engineering
FHWA, Length: 60

Describes performance criteria including rupture and deformation predictions; results of research and a symposium. Shows how to build a good road, including drainage and pavements, as well as standards applying to them.

13.03 Roadway Design: Balancing Safety, Environment, & Cost
Minn. LRRB, Length: 13 Min

Provides 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).

13.04 Accessible Sidewalks: Design Issues for Pedestrians With Disabilities
US Access Board, Length: 40 Min

Ths video covers design issues for pedestrians who use wheel chairs, with ambulatory impairments.

Roadway Maintenance (Paved)

14.01 Alkali-silica Testing
SHRP, Length: 20

Discusses alkali-silica reactivity (ASR) as a major cause of concrete cracking. Determination and prevention of ASR, and the use of new and conventional tests to predict performance are shown.

14.02 Asphalt Emulsion Spray Application
Asphalt Institute/AMA, Length: 23

Covers the process of asphalt emulsion spray treatment and basic constituents of the emulsion. Also, the various factors that result in a good surface with emulsion spray treatment and the step-by-step process of surface preparations are discussed.

14.03 Asphalt Roadway Rehabilitation
FWHA, Length: 6

Describes the Local Technical Assistance Program (LTAP) training course on asphalt roadway rehabilitation.

14.04 Base & Sub - Base Repair
IRF, Length: 16

Outlines nine-step base repair system which includes placing traffic control devices, marking repair limits, cutting pavement, removing unsuitable material, installing sub-grade and base, replacing pavement, and cleaning up and removing traffic control devices.

14.05 Chip Seal Application
FWHA, Length: 40

Describes three parts to applying chip seals. Part 1: shows preliminary concerns, materials, equipment, surface preparation, weather requirements, and application rates. Part 2: discusses chip seal procedures, binder application, chip spreading, and roller operation. Part3: details problems that can occur and their solutions.

14.06 Concrete Pavement Overlays
SHRP, Length: 22

General information and steps for constructing concrete overlays, including design consideration, pre-lay repairs, surface preparation, concrete placement and curing, and joint sawing and sealing.

14.07 Crack Repair in Asphalt Pavement
IRF, Length: 12

Describes the repair of small cracks, linear or area in nature, required tools and equipment, materials, placing signs, cleaning out cracks, filling cracks with asphalt mixture, applying liquid asphalt, spreading cover aggregate, cleaning site, and removing traffic control devices.

14.08 Crack Sealing
Penn DOT, Length: 16

Describes the requirements for proper crack sealing of bituminous surface, such as materials, equipment preparation, sealing and safety.

14.09 Ditch Maintenance
NCITRE, Length: 16

Discusses the need for proper drainage, the goals for ditch maintenance, procedures for performing the maintenance with motor grader and excavator.

14.10 Early Opening of Full-Depth Concrete Pavements
FHWA, Length: 10

Explains the major considerations of early opening of full-depth concrete repairs. Planning, scheduling, and evaluating work are also discussed.

14.11 Flowable Fillequipment
Southeastern Fly Ash Company, Length: 22

Describes the properties and applications of flowable fill. Numerous applications are described including fill for utility trenches, below grade structures, bridge abutments, underground structures, slabs on grade, converting a bridge to a culvert, footbridge construction, and replacing eroded material.

14.12 Full Depth Repair of Jointed Concrete Pavements
SHRP, Length: 18

Covers five major topics relating to repair of jointed concrete pavement: distress requiring full depth repair, field survey, transverse joint design, materials, and repair procedures.

14.13 Hot Mix Asphalt is the Best Buy… All of the Time
NAPA, Length: 9

Discusses advantages, including cost, of hot mix asphalt for patching.

14.14 The Importance of Roadway Drainage
FHWA/LTAP, Length: 18

Water is the most significant cause of damage to pavement structures, and this video not only shows how structures can be damaged, it also shows how to prevent the damage from occurring.

14.15 Introduction to Rehabilitation of Highway Concrete
SHRP, Length: 11

Covers rehabilitation of highway concrete. It introduces five activities: partial depth repairs, full depth repairs, full slab replacement, concrete overlays on existing pavement, and overlaying bridge decks.

14.16 Maintaining Asphalt Roads: Blade Patching
NMHD, Length: 55

Describes the process of blade patching. Process involves cleaning and preparing the surface to be patched, laying material, lifts, tapers, compaction, final rolling, and clean-up.

14.17 Partial Depth Repair of Concrete Pavements

SHRP, Length: 15

Discusses the partial depth repair of concrete pavements, both materials and methods of repair.

14.18 Patching with Hand Tools
Utah DOT, Length: 110

Temporary pothole patching, lane leveling bituminous surfaces, sealing cracks, bituminous seal coat base repair.

14.19 Pavement Condition
Deighton, Length: 48

Tells how and why pavement deterioration occurs and how to measure condition.

14.20 Pavement Structure Repair Techniques: Asphalt Chip Seals
FWHA, Length: 22

The seven steps of asphalt chip seal procedure: examine existing pavement, repair pavement, clean surface, apply asphalt, spread aggregate, roll aggregate, and remove excess aggregate.

14.21 Pavement Structure Repair Techniques: Tape 1
NCITRE/FHWA, Length: 88

Describes the five different aspects of pavement structure repair, which includes maintenance of gravel roads, ditch maintenance, pothole patching, crack sealing, and basic traffic control.

14.22 Pavement Structure Repair Techniques: Tape 2
NCITRE/FHWA, Length: 43

Part 1: Discusses shoulder maintenance including the function of a shoulder, design of a shoulder, and three types of operation for shoulder maintenance. Part 2: Discusses the seven steps of the asphalt chip seal procedure.

14.23 Pothole Patching
FWHA, Length: 23

Causes of potholes, equipment needed for repair, and six steps for proper repair.

14.24 Pothole Repair in Asphalt Concrete Pavement
IRF, Length: 13

Tools and equipment required and the procedures for repair including: placing of signs, marking damaged areas, cutout and removal of bad material, filling hole with granular material, compacting, sealing the surface, cleaning up the site, and removing traffic control devices.

14.25 Pothole Repair in Surface Treatment Pavement
IRF, Length: 14

Covers the steps of placing traffic control devices marking defective area, cutting out the defective material, cleaning out the hole, applying tack material, placing the mix, compacting, cleaning up, and removing traffic control devices.

14.26 Potholes: Causes, Cures, & Prevention
US Army Corps. of Engineers, Length: 11

Discusses how potholes develop, how they should be properly repaired and how to develop a pothole repair program along with preventive techniques.

14.27 Protecting our Pavement
SHRP, Length: 14

How to maintain the investment in the transportation infrastructure by preventive maintenance.

14.28 Puff Pothole Repair Machine, The
Puff Ment Inc., Length: 5

Illustrates how potholes can be repaired by using "Puff" which is a machine about the size of a normal truck.

14.29 Quality Control of Concrete on Site: Part 1
SHRP, Length: 14

Describes conventional control methods of sampling, checking temperature, and measuring slump for determining the quality of concrete on site.

14.30 Quality Control of Concrete on Site: Part 2
SHRP, Length: 17

Discusses the conventional control test for air content, unit weight, cylinders, and beams for determining the quality of concrete on site.

14.31 Quality Control of Concrete on Site: Part 3
SHRP, Length: 18

Shows new quality control tests for "as delivered concrete" including water content, thermal effects, and evaluation.

14.32 Quality Control of Concrete on Site: Part 4
SHRP, Length: 18

Shows new quality control test for "as placed concrete" including maturity monitoring, temperature-matched curing, pulse velocity testing, and nuclear density testing.

14.33 Recycling Roads with Asphalt Emulsions
Asphalt Institute, Length: 22

Describes methods and materials used to recycle low volume road material in the construction of asphalt-strengthened base courses for new pavement.

14.34 Repair of Depressions, Rutting & Corrugations
IRF, Length: 14

Leveling and overlaying with motor grader, repair to improve skid resistance.

14.35 Road Oyl: Resin Modified Emulsion
Road Products Corp., Length: 25

Road Oyl is a non-water soluble, high bonding strength emulsion developed for use in pavement applications, dust control, and erosion control.

14.36 Sealcoating: A Matter of Science & Skills
Minn. LRRB, Length: 17

Describes the purpose of sealcoating and the four types of sealcoating, with an emphasis on chip seals.

14.37 Shoulder Maintenance
FWHA, Length: 21

Detailed discussion of three types of operations that may be performed during shoulder maintenance: reshaping, low shoulder repair, and high shoulder repair.

14.38 Single & Multiple Surface Treatments

IRF, Length: 14

Discusses the necessary steps of placing traffic control devices, cleaning the surface, applying the asphalt, spreading aggregate if necessary, sweeping off loose aggregate, and removing traffic control devices.

14.39 Utility Cuts in Paved Roads: Parts 1 & 2

LTAP/ BSN, Length: 41

A general review of utility repairs. Covers utility coordination and control, locating existing utilities, traffic control, pavement cutting, excavation, backfilling, surface restoration, and site cleanup.

14.40 Retrofitted Load Transfer Devices

Keytone Engineering & Manufacturing Corp; Indiana DOT, Length: 5

Demonstrates the use of Carbide Grinding for load transfer applications in jointed concrete pavements.

14.41 Rehabilitation of Portland Cement Concrete Pavements Using Hot Mix Asphalt Overlays

NAPA, Length: 18

Topics covered are cracking and seating, breaking and seating, rubblizing, and sawcut and sealing.

14.44 Preventive Maintenance and Surfacing Systems

Internation Slurry Surfacing Association, Length:

DVD ONLY: Explains advantages, benefits, and economics of Pavement Presevation and Slurry System preventive maintenance treatments for existing asphault roadways. (2 programs)

14.45 Preventive Maintenance and Surfacing Systems

ISSA, Length: 10 min

This DVD contains information on pavement preservation strategy, preventive maintenance, and high performance slurry systems.

Roadway Maintenance (Unpaved)

15.01 Blading Unpaved Roads
FHWA/NACE, Length: 22

Covers motor grader operations to smooth and shape unpaved road surfaces. Special situations covered include intersections, railroad crossings, driveways and bridge approaches.

15.02 Controlling Dust on Unpaved Roads
The Dow Chemical Company, Length: 16

Describes the use of a proprietary product called Liquidow, a calcium chloride chemical, in controlling dust on unpaved roads.

15.03 Dust Control: 1989
The Dow Chemical Company, Length: 16

Discusses controlling dust on unpaved roads by use of "Liquidow", liquid calcium chloride. Explains the cause of the dust problem and solution by use of proper drainage and liquid calcium chloride. Shows other advantages in lower Maintenance and costs and how to repair and improve an unpaved road by blading.

15.04 Maintaining Granular Surfaced Roads
Oklahoma St. Univ. & Iowa Hwy Research Board, Length: 16

Shows experienced grader operators how to grade low volume gravel roads. (Slide and tape program copied to a video.)

15.05 Maintaining Gravel Roads in Arkansas
Univ. of Arkansas, Length: 28

Describes techniques and procedures for gravel road maintenance using motor grader.

15.06 Patching Unpaved Roads
IRF, Length: 11

Describes manual methods for repairing surface defects, such as potholes, ruts, gullies, and soft spots. Proper maintenance practice for repairing, filling, and compacting are detailed. A quick test for moisture content is also described.

15.07 Pavement Structure Repair Techniques: Gravel Roads
NCITRE, Length: 37

Explains the basic principles and techniques for the maintenance of gravel roads.

15.08 Problems with Secondary Roads
FHWA, Length: 55

Part 1: discusses the importance of considering the environmental conditions and the materials available when planning to rework a gravel road. Part 2: covers the causes, prevention, and correction of problems that occur with gravel roads. Part3: shows maintenance equipment and blading techniques.

15.09 Regraveling
IRF, Length: 18

Discusses planning and coordination to restore road wearing and make repairs prior to re-graveling. Equipment and material are outlined and a six-step regraveling procedure is presented.

15.10 Reshaping Earth & Gravel Shoulders
IRF, Length: 15

Illustrates reshaping of shoulders and the earth and gravel that surround them, along with how to correct shoulder drop-off and rutting.

15.11 Smoothing & Reshaping of Earth & Gravel Roads
IRF, Length: 21

Video has two parts: Smoothing and reshaping. Each part has an equipment requirement, an overview of work steps, and a work step summary. Planning and preparing the work, and checking the cross slopes at straight and curved sections are also covered.

15.12 Soil Stabilization: Selecting the Modifier
ERES/FHWA, Length: 19

Describes the objectives and benefits of soil stabilization.

15.13 Unsurfaced Road Inspection
US Army Cold Regions Reasearch & Engr. Lab, Length: 7

Describes the procedures for conducting an inspection program for unsurfaced roads.

15.14 Upgrading Gravel Roads
RTAP, Length: 21

Shows how worn out gravel and asphalt roads can be recycled saving counties hundreds of thousands of dollars.

15.15 Using Calcium Chloride to Improve Secondary Roads
Tetra Chemicals, Length: 10

Compares the use of calcium chloride to water when moisturizing secondary roads.

15.16 Forest Roads and the Environment
USDA, Length: 18

Provides as an introduction to the maintenance of low volume roads, highlighting issues that benefit from proper maintenance activities, such as water temperature, fish habitat and aggregate surfacing loss.

15.17 Reading the Traveled Way
USDA, Length: 16

Focuses on understanding what the condition of the road is and provides insights on how to proactively avoid costly repairs by properly addressing the road in its current condition.

15.18 Reading Beyond the Traveled Way
USDA, Length: 17

Considers the natural functions happening beyond the roadway (rain, erosion) and how to use that knowledge before beginning maitenance operations to help minimize significant impacts on the road.

15.19 Smoothing and Reshaping the Traveled Way

USDA, Length: 18

Covers detailed step-by-step processes used for both smoothing and reshaping a road.

15.20 Maintaining the Ditch and Surface Cross Drains

USDA, Length: 16

Provides comprehensive instructions for correctly constructing and maintaing ditches, culverts and various surface cross drains.

15.21 Gravel Road Maintenance: Meeting the Challenge

Length: 40 min

This DVD shows maintenance workers, supervisors, and engineers the right way to perform gravel road maintenance. This DVD also shows the public what can be done, what is being done, and why it needs to be done. It is designed as a training tool in conjunction with the Gravel Roads Maintenance and Design Manual. This DVD covers correct roadway shape, shaping the roadway, good surface gravel, and dust control.

Roadway Paving

16.01 Asphalt Emulsion and their Uses
AEMA, Length: 15

This video addresses the various uses of asphalt emulsions including preventative maintenance practices, and full-depth reclamation, cold in-place recycling using new techniques that will strengthen the pavements, save money, and reduce environmental impacts.

16.02 Asphalt Overlay's, the 4 P's
Minn. DOT, Length: 15

Describes the philosophy, purpose, and benefits of placing an asphalt overlay. A short explanation about the goal of pavement maintenance, pavement design, and placement of asphalt overlay as a maintenance procedure are presented.

16.03 Asphalt Paving Inspection
FHWA, Length: 60

Describes the preliminary responsibilities of those responsible for the construction and maintenance of the local road system before paving begins and during the paving operation, as well as some of the problems that can occur during these operations.

16.04 Handling Hot Mix Asphalt
National Asphalt Pavement Association, Length: 16

Instructions for pavement crews regarding safety, teamwork, tools, joints, handwork, and segregation prevention.

16.05 Hot in Place Recycling: New Technology for Old Roads
Pyrotech Asphalt Equipment Mfg. Co. LTD., Length: 10

Describes the need of (or advantage of) hot in-place recycling of pavements. The process of construction using hot recycling of existing pavements is explained. The logistics and machinery to carry out hot recycling are also discussed.

16.06 Hydrated Lime: Key to Improved Asphalt Pavements
National Lime Association, Length: 21

Discusses the benefits of hydrated lime as an additive in asphalt mixes for highway pavements.

16.07 Low Volume Road Series
FHWA, Length: 35

Setting priorities for low volume roads as well as how to manage the maintenance for these low volume roads.

16.08 Paving the Way … To the 21st Century
AEMA, Length: 10

Discusses asphalt emulsions and the benefits they provide.

16.09 Paving the Way for Tomorrow's Highway
SHRP, Length: 16

Discusses the 5-year, $150 million program that was financed with federal-aid highway funds. Areas of SHARP include asphalt, pavement performance, highway operations, and concrete structures. Individual projects are defined.

16.10 Superpave Asphalt Pavements that Perform
SHRP, Length: 4

Shows how the new technique "Superpave," is useful for selecting asphalt that will perform. Different tools that are useful to test asphalt are explained.

16.11 Tires To Asphalt
Florida DOT, Length: 13

Discusses adding recycled tires to asphalt.

16.12 Understanding Superpave Mix Design
FHWA/NAPA, Length: 13

Provides a brief overview of the Superior Performing Asphalt Pavement (Superpave) process for designing hot mix asphalt pavements.

16.13 Uses of Asphalt-Rubber
Asphalt Rubber Producers Group, Length: 7

Explains the processing of used rubber tires into crumb rubber that improves characteristics of asphalt cement in seal coats.

16.14 Paving Practices for Quality
SOURCE: NAPA, Length: 30

This video discusses the importance site work, paver operations, and roller operations in the paving process.

16.15 The Right Choice: Full-Depth Recycling with Cement
PCA, Length: 5

Benefits of using a pavement recycling technique on deteriorating roads and how the process can save money and resouurces.

Traffic

17.01 Basic Traffic Control
NCITRE, Length: 11

Discusses basic traffic control procedures for stationary and moving operations, placement of warning signs, and the use of flaggers.

17.02 HCM for Locals
Delaware DOT, Length: 15

Provides a beginner's overview of the highway capacity manual. It provides definitions, several simple levels of service calculations, and discusses the principles of capacity.

17.03 Improving American Roads
FHWA, Length: 12

Ideas to improve roads from the international technical scanning program that identified ideas from abroad that can be cost effectively adapted to federal, state, and local highway programs.

17.04 Job Site Safety Series: Developing Job Site Traffic Control Plans
FHWA, Length: 21

Focuses on the pre-planning period and the questions that need to be considered. Discusses the design process and a nine-step process leading to the selection of an appropriate work zone traffic control strategy.

17.05 Job Site Safety Series: Installation, Inspection, and Maintenance of Work Site Traffic Control Devices
FHWA, Length: 24

Describes the guide lines used for the placement of traffic control devices and also considers different driver perspectives when locating these devices. Describes the typical installation, inspection, and maintenance of traffic control devices.

17.06 New Directions in Sign Management
ATSSA, Length: 15

Describes how local jurisdictions can develop an effective sign maintenance program, including inventory, evaluation and scheduled replacement.

17.07 Pavement Marking Inspection: Epoxy - Part 2
ATSSA, Length: 19

Looks at what it takes to produce long lasting, high quality pavement marking. Gives an overview of materials and equipment used when applying epoxy to pavement marker, and the 10 major inspection points that are critical for achieving the best pavement marking performance.

17.08 Quickchange Moveable Barrier
Barrier Systems, Inc., Length: 7

A concrete barrier system made up of hinged concrete sections that can be used to provide work zone safety or to improve traffic control.

17.09 Quickchange Moveable Barrier (HOV LANES)

Barrier Systems, Inc., Length: 7

Interstate 30, in Dallas, Texas, uses a quickchange moveable barrier system to change the traffic flow lane during the morning and evening rush hours.

17.10 Ramp Metering: Signal for Success

FHWA, Length: 17

Explains the principles and benefits of ramp metering by showing examples of successful projects in Los Angeles, Denver, and Minneapolis. Addresses several key issues, such as safety, efficiency, equity, and public relations.

17.11 A Sign for the 90's

TABCO, Length: 12

Using computer-based software package to safely and quickly make traffic signs.

17.12 Sign Maintenance & Installation

FHWA, Length: 27

Describes the procedure for keeping track of all signs in the county and discusses priorities for needed maintenance and tracks of maintenance, the proper use of traffic control devices, and the typical field operations using the appropriate equipment for specific jobs, the tools, the tools needed, and the proper placement of signs.

17.13 Testing & Field Inspection of Roadway Delineation

FHWA, Length: 36

Part 1: Inspection points important to surface markings. Part 2: Other types of delineation signs, and object markers.

17.14 Traffic Control Series: Markings & Islands

FHWA, Length: 19

Focuses on the purpose of pavement markings, curb markings, markings applications, and other special situations. Discusses the three main functions of an island and the three types of islands.

17.15 Traffic Control Series: Special Use Traffic Controls

FHWA, Length: 17

Describes the various traffic controls used under special road conditions: beacon, lane use control signals, pedestrian signals, freeway ramp control signals, narrow bridge or tunnel signals, high occupancy vehicle facilities, changeable message signs, movable concrete barriers, and several miscellaneous signs or signals.

17.16 Traffic Control Series: Worldwide Traffic Sign Systems

FHWA, Length: 26

Discusses regulatory signs and the specific regulatory categories. Describes warning signs and their main function, guide signs, listing of colors and a brief background and their individual meanings. Discusses standard shapes and covers some differences and special considerations concerning each system.

17.17 Traffic Control Series: Traffic Control Signals at Intersections

FHWA, Length: 18

Describes the steps in determining the need for a signal at an intersection. First, looking at what study should be used: traffic volume, spot speed, accident analysis, gap, or delay. Then, applying the results of the study to a series of warrants. Also adresses the need for a flashing signal, the installation of a signal, controller phasing, and timing.

17.18 Traffic Control Series: Traffic Controls for Schools, Railroad Crossings, & Bicycle Facilities

FHWA, Length: 24

Describes the various signs, signals, and markings used to warn drivers in advance of a school area. Describes the three stages when a driver crosses tracks and defines both passive and active traffic control devices for a railroad crossing. Covers signs that are common to bicyclists, but different from those for drivers.

17.19 Traffic Control Series: Traffic Sign Inspection & Maintenance

FHWA, Length: 21

Describes an inspection program and a maintenance system for traffic signs. Describes a typical sign shop, field equipment, sign materials, sign maintenance budgeting, and sign inventory.

17.20 Traffic Control: What Works?

Minn. LRB, Length: 14

The objective is to offer information on how public officials develop reasonable, research-based traffic control strategies and choose traffic control devices.

17.21 Traffic Control Series: Traffic Sign Placement & Location

FHWA, Length: 22

Describes the general rules and standard principles that govern placement and location of traffic signs: overhead installation, sign height practice, lateral clearance, sign position, and sign erection. Identifies the different concerns when placing signs in an urban area, rural area, and along freeways.

17.22 Traffic Plan to Live By, A

TECS, Length: 10

Provides a common sense approach to low speed traffic control.

17.23 Traffic Signal Systems: Go for the Green

FHWA, Length: 13

Demonstrates the need for proper traffic signalization and installation, and highlights current practices. Addresses public works officials and citizen groups about the basics of good traffic control signalization.

17.24 Traffic Safety Series

IRF, Length: 58

Identifying highway safety problems and solutions, evaluating and selecting the best safety alternatives and evaluating safety program results are all discussed.

17.25 It's about time…Traffic Signal Mananagement Cost Effictive Street Compacity and Safety

FHWA, Length: 13

Video describes signal management systems that work for different highway designs and different highway comacities.

Road Maintenance (Winter)

18.01 **Anti-icing for Maintenance Personnel**
FHWA, Length: 13

Discusses the tools necessary for anti-icing. These include material, equipment, personnel, and strategy.

18.02 **Freeze Thaw Testing**
SHRP, Length: 25

Discusses causes and prevention of freezing the concrete pavement, in addition to conventional new testing.

18.03 **Frost Action in Soils: 1992**
FHWA, Length: 11

Description of frost action and its effects on road surface. Basic prevention of frost heave is also shown.

18.04 **Plow Power**
N.E. Chapter of Amer. Public Works Assoc., Length: 12

Discusses the economic considerations of timely snow plowing and emphasizes the importance of planning and personnel training. Major discussion is centered on the proper snow plowing procedure for different types of streets, including cul-de-sacs.

18.05 **Response of Winter**
Penn DOT, Length: 20

Discusses levels of services that can be provided to keep roads clear of ice and snow. This tape also covers the establishing of priorities for clearing various classes of roads.

18.06 **Snow Fighters, The**
The Salt Institute, 1982, Length: 28

Describes the importance of efficient and effective snow and ice control operations in keeping roads and streets open and safe during and after winter storms.

18.07 **Staying Ahead of the Storm: Road Weather Information System**
SHRP, Length: 21

Discusses RWIS, which is a road monitoring and prediction system employing real-time sensor data, historical weather patterns, and computer models to forecast special adverse pavement conditions so that snow and ice maintenance managers can improve their allocation of labor, equipment, and materials.

18.08 **Tire Chip Feature**
Univ. of Maine, Length: 4

A demonstration of an experiment using tire chips as a road base insulator to protect a highway from frost damages.

18.09 Using Snow Plows on Motorgraders

FHWA/ LTAP, Length: 15

This video describes how to attach snow plows to the various brands of motorgraders and gives basic information on how to use plows to remove snow from roads. It covers different types of plows, including front single, side wing, and vee plows.

18.10 Wetted Salt

The Dow Chemical Company, Length: 20

Illustrates the added melting powers of salt used for snow and ice control if it is pre-wetted with liquid calcium chloride, and the practical concerns for handling and application.

18.11 What is Anti-Icing

FHWA, Length: 9

Anti-icing is a snow and ice control strategy used for important roads that must be kept open. This tape discusses anti-icing practices.

Work Zones

19.01 Arrow Panels & Barrier Delineation in Work Zones
FHWA, Length: 50

Describes the use of arrow panels to accomplish lane closures, lane shifts, and barrier delineation in work zones with concrete safety-shaped barriers.

19.02 Flagger, The
Washington State DOT, Length: 43

Describes the responsibilities and proper procedures for flaggers including placement of signs, proper attire, signaling and flagger position.

19.03 Flagging Operations & Procedures
SC DOT, Length: 23

Describes flagging operations and procedures for use in construction and work zone areas.

19.04 Job Site Safety Series: Work Zone Safety Concepts
FHWA, Length: 25

Covers the basic principles of work zone safety. Identifies a typical traffic control zone: the advance warning area, the transition area, buffer space, the work area, and the terminator area. Also covers planning for traffic control, the function of traffic control devices, and typical applications.

19.05 Night Time Traffic Control in Work Zones
ATSSA, Length: 18

Shows why night time work areas are more hazardous than daytime areas and demonstrates methods that can be taken to provide safe traffic control.

19.06 Warn, Guide, & Protect: An Introduction to Flagging, To
New Mexico DOT, Length: 102

Covers the three elements of a flagger's duties: to warn motorists, to guide and control traffic, and to protect motorists and workers. Reviews and demonstrates flagging procedures.

19.07 Work Zone Safety for Rural Local Agencies
FHWA, Length: 102

Presents a seven-part video of work zone safety operations. Parts are: traffic control devices, traffic control zones, typical applications, flagging, legal liability, and a typical day. A training tool for managers and employees of road departments to learn how to cope with road construction and maintenance hazards.

19.08 Highway Work Zone Safety: Grading Safety
Iowa Department of Transportation, Length: 14 Min

Discusses about the awareness, while grading. The operator should be aware of the things around him and should check for the utility signs too.

19.09 Highway Work Zone Safety: Loading, Transporting and Unloading Heavy Equipment
Iowa Department of Transportation, Length: 12 Min

This video focusses on dangerous situations related to large equipment transportation and avoiding unsafe activities, recognizes hazards of visiblity around large equipment, and shows awareness of how easily equipment can become unbalanced.

19.10 Highway Work Zone Safety: Moving Operations / Maintenance Safety
Iowa Department of Transportation, Length: 13 Min

This video Discusses about the careful acts that need to be considered while clearing the way from ice, replacing the side guards and while road patching.

19.11 Highway Work Zone Safety: One Step From Death
Iowa Department of Transportation, Length: 11 Min

This video emphasizes the need for awareness in the line between the workzone and the traffic zone. Helps the employee realize that the threat to the safety lies not just from the oncoming traffic, but also from the heavy equipment and other contractor vehicles within the work zone.

19.12 Highway Work Zone Safety: Paving Safety
Iowa Department of Transportation, Length: 11 Min

Discusses the common hazards of asphalt cement concrete and Portland cement concrete paving operations as well as specific hazards to asphalt cement concrete and portland cement concrete. This video also recognizes the dangers attributed to night paving.

19.13 Highway Work Zone Safety: Plant Site Safety
Iowa Department of Transportation, Length: 11 Min

Discusses about the precautions to be taken at the plant site, while moving. It stresses, one should be aware of the equipments that is around them.

19.14 Highway Work Zone Safety: Removal / Demolition Safety
Iowa Department of Transportation, Length: 11 Min

Teaches about the safer acts while demolishing the structure.

19.15 Highway Work Zone Safety: Structures Safety
Iowa Department of Transportation, Length: 12 Min

Emphasizes alertness during the construction process.

19.16 Highway Work Zone Safety: Surveying Safety
Iowa Department of Transportation, Length: 17 Min

Discusses about the safety, one should take along with his partner, while carrying out a survey in the places like highways, bridges and construction sites. Also it guides about the outfits one should follow during this process

19.17 Highway Work Zone Safety: Traffic Control Safety
Iowa Department of Transportation, Length: 11 Min

Discusses about the safety measures to be followed, while derouting the vehicles on a construction site.

19.18 Highway Work Zone Safety: Utility Safety in Highway Work Zone Safety: Structures SafetyHighway Work

Iowa Department of Transportation, Length: 14 Min

This video adresses about the safety precautions to be taken while digging. One should always check for the utility signs like the gasline, telephone line, sewage line etc. Before excavation, the responsible person should ask for a utility map from the utility department.

19.19 Flagging in the Work Zone: Safety in Your Hands

Oregon DOT/ FHWA, Length: 10 min

DVD ONLY: Covers proper flagging practices and Techniques that help make work zones safer for flaggers, workers and roadway users.

General Safety

20.01 **Loader Backhoe, Operator Safety**
ETR, Length: 15

This tape is designed specifically for the operator. It covers the most common mistakes and accidents involving these machines, as well as loading, transporting, utility dangers and roll over accidents.

20.02 **Loader Backhoe, Worker Safety**
ETR, Length: 20

This tape addresses the urgent need for a set of practical guidelines for the many other trades that work around the loader-backhoe on a daily basis.

20.03 **Trenchers, Stay Alert, Stay Alive**
ETR, Length: 10

This tape addresses the safety methods and correct practices for trenching machinery operation.

20.04 **One Too Many**
ETR, Length: 10

This video describes the action taken by a firm after a fatality on a construction site.

20.05 **Fire Extinguishers- Your Pass to Safety**
COASTAL, Length: 10

Decribes safe practices when using fire estinguishers. The video descibes the steps to take when extinguishing a fire hazard on the jobsite.

20.06 **Safety Training for Repair Technicians**
Vista Videos, Length: 22

Proper procedures, protection, and positions to prevent most common injuries.

20.07 **On Again, Off Again: A Guide To Mounting and Dismounting Heavy Equipment**
Asso. of County Commissioners of Oklahoma, Length: 18

This video provides a training tool for counties to address the increasing injuries from mounting and dismounting heavy machineries.

20.08 Incident Command System: When Duty Calls

Coastal, Length: 20

In today's climate of terrorism, industrial accidents and natural disasters, groups of emergency responders often work together to handle the response. The National Incident Management System (NIMS) was established by the federal government to help all responders work together. This program will help emergency responders and those responsible for your facility know their roles and responsibilities in an emergency.

It covers:

•Identifying an Incident Command System Command Structure

•Setting up incident site locations and facilities

•Communication rules

•Cooperation with law enforcement/fire department

20.09 Disaster Safety: Aftermath and Cleanup

Coastal, Length: 17

Recovery teams at natural and man-made disasters have important and hazard-riddled jobs to do - from finding survivors to restoring power. Be sure any of your workers who may be involved in the rescue and cleanup work that inevitably follow hurricanes, chemical spills, explosions, and other disasters are prepared to stay safe and healthy.

Assessing the scene for hazards

Operating equipment safely

Handling human remains

Personal protective equipment

Leadership and Management

21.01 Be Prepared to Lead
Toastmasters, Length: 27

This video teaches you to recognize which of four specific leadership styles is your own natural style, using four different managers applying appropriate leadership techniques in a variety of business situations.Further, it also explains what types of employees are most likely to respond best to these different leadership styles so you can modify your approach as the situation demands.

21.02 How to Run a Successful Meeting In Half The Time
Toastmasters, Length: 13

This is a short, fun video.It opens with a meeting that's out of control: the leader likes the sound of his own voice, while the participants wish they were somewhere else.So this video explains the techniques to conduct an effective and productive meeting.

21.03 Be Prepared for Meetings
Toastmasters, Length: 24

This video provides a thorough overview of how to prepare for, and conduct, effective meetings. It gives you a clear understanding of the different types of meetings so that you can set your agenda according to your goals.

21.04 Cornerstones Of Quality
Toastmasters, Length: 24

This video shows how to make the quality management principles: continuous improvement, customer focus, employee involvement and commitment to measurement and evaluation, a REALITY.

21.05 How Great Companies Achieve Extraordinary Results with Ordinary People
Standford School of Business, Length: 50

Why common assumptions about workers are wrong. Why money is a terrible motivator, and people-centered practices that can double productivity.

21.06 People-First Management: Creating a Culture of Trust
Standford School of Business, Length: 50

The cornerstones of good business: credibility, respect and fairness. How to give your employees a vested interest in your company's success. The critical need for setting clear expectations, and acting accordingly.

Safety

22.01 **Fire in the Workplace**
COASTAL, Length: 17

Defines the different types of fire found in the workplace. Gives prevention stratagies, ways to extinguish the fires, and first aid.

22.02 **Pro-Active Safety Attitudes**
COASTAL, Length: 19

Describes work hazards and pro-active ways to eliminate unsafe conditions on the job.

22.03 **REAL LIFE- Safe Driving**
COASTAL, Length: 18

Descibes precautions drivers can take to reduce the risk of accident on the highway.

22.04 **REAL LIFE- Fire Safety**
COASTAL, Length: 15

Describes precautions to lower the risk of injury to fire on a jobesite. Outlines potential problems and pro-active actions to take to prevent fire on the site.

22.05 **Trainers Toolkit- Fire Safety - There's no Second Chances**
COASTAL, Length: 20

Describes proactive steps to take on the job site to prevent injury or the loss of life due to fire, on the jobsite.

22.06 **Groundskeeping Safety: Dealing with Bugs and Critters**
Coastal, Length: 16

This videos helps the grounds keeping and facility personnel to recognize and avoid potentially dangerous critters by using caution, personal protective equipments, keeping an eye and by protecting their skin. The video also demonstrates certain basic first-aids for bites and stings.

22.07 **Working Outdoors: Mosquitoes and Ticks**
Coastal, Length: 15

This Video helps you to be more aware of bugs. It lets you know where potentially dangerous bugs live, when they tend to be more active, what diseases they carry, what are the symptoms of those diseases and most important how to protect yourself from that.

22.08 **Heat Stress: Don’t Loose Your Cool**
Coastal, Length: 14

This video explains the various heat stress disorders which includes sunburn, heat cramps, heat exhaustion, heat stroke, their symptoms and the first aid methods.

22.09 Chainsaw Safety, Maintenance, And Operation

Length: 19

Shows proper use of PPE, chain saw maintenance procedures, safe starting and operating techniques and hazard awareness.

22.10 Sensible Wood Cutting: Tips From the Pros

Husqvarna, Length:

This video covers Personal, Protective Gear, Making a Cutting Plan, and Various Felling Techniques

22.11 Contractor Safety: It's everybody's business

Length:

DVD ONLY: This program focues on various specific hazards including slips, trips and falls; fire safety; personal protective equipment; confined space entry; trenching and shoring; lockout/ tagout; hotwork; chemical process safety; and working with hazardous chemicals.

22.12 First Aid: Prepared to Help

Coastal Training, Length:

DVD ONLY: Knowing first aid can mean the difference between temporary and permanent disability, between life and death. That's why it's important for you to learn the four emergency action principles, first aid basic, and first aid tips for specific injuries.

22.13 MSDS: Read it Before You Need It

Coastal Training, Length: 20

DVD ONLY: Program will help your employees use and understand the MSDS and in so doing help to control the chemical hazards in your facility. Product information, Exposure situations, Hazard prevention and PPE, Toxicology, ecology and disposal.

22.14 Emergency Action Plan

Coastal, Length:

DVD Only: With new threats facing our society today, an Emergency Action Plan is required not only for OSHA compliance, but also for survival. Make sure your facility has a well-thought-out plan in place by following guidelines provided in this program.

It covers:

-Emergency alarm and evacuation

-Medical Services

-Cooperation with emergency services

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