

Anti-Icing for Maintenance Personnel

1996 FHWA, CRREL Video/VHS Format 13 min
A general discussion of anti-icing strategy and the use of material and equipment.
Could be used to introduce the topic of anti-icing to public works personnel.

Asphalt Crack Treatment - Helpful Information for the Road

1993 Minnesota Local Road Research Board (LRRB) Video/VHS Format 15 min
A well presented program, showing routing, hot lance blowout, and sealing (with over banding being used).

Asphalt Overlays: The Four P's

1994 Minnesota Local Road Research Board (LRRB) Video/VHS Format 16 min
This program is intended for persons who are not engineers or technicians, but are nonetheless concerned with pavement performance. The four P's are Planning, Preparation, Production, and Placement. Only a very small portion of the program contains material specific to Minnesota.

Base and Sub-Base Repair

1985 International Road Federation Video/VHS Format 16 min
Planning on doing some base and sub-base repair? Get some good ideas on what's needed to make a good and effective repair, from this tape.

Bituminous Seal Coat

Washington State OT Video/VHS Format 16 min
Shows what materials, equipment, traffic control, and work methods are necessary for bituminous seal coats (hot oil, not emulsion). This program was created for training of WSDOT inspectors.

Blading Unpaved Roads - Tape 1 of 2

National Association of County Engineers, FHWA Video/VHS Format
Part 1 - Illustrates operations described in the NACE Engineers Training Guide Series booklet "Blading Aggregate Surfaces." Includes techniques to be used at bridge approaches, railroad crossings, intersections, and driveways.

Blading Unpaved Roads - Tape 2 of 2

National Association of County Engineers, FHWA Video/VHS Format 22 min
Part 2 - Illustrates operations described in the NACE Engineers Training Guide Series booklet "Blading Aggregate Surfaces." Includes techniques to be used at bridge approaches, railroad crossings, intersections, and driveways.

Chip Seal Application

FHWA	Video/VHS Format	40 min
Part 1: All Pre-placement Concerns		18 min
Part 2: Chip Seal Procedures		13 min
Part 3: Chip Seal Problems		9 min

Codington County Solution

1990 © South Dakota DOT	Video/VHS Format	16 min
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Shows how Codington County used cold in-place recycling to rehabilitate a badly deteriorated asphalt concrete roadway.

Cold Planing Revolution, The

1989 © ARRA	Video/VHS Format	6 min
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An overview of the uses and benefits of cold planing.

Crack Sealing: A Necessity for Pavement Maintenance

1992 ODOT	Video/VHS Format	5 min
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Reasons for crack sealing, types of sealant, know what type of sealant to use, overview of the process, types of equipment used and safety while crack sealing

Development of a Quick Change Sign Post System

Cal Trans	Video/VHS Format	9 min
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Good installation and demo for areas with sign post loss.

Everyone Pay for Potholes

Cornell University	Video/VHS Format	27 min
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Should you be asked why it costs so much to maintain paved roads, this short program gives some excellent points on what needs to be done to keep paved roads in prime condition

Expandable Manhole Riser

1990 American Highway Products, Ltd.	Video/VHS Format	5 min
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If your agency is planning to overlay some streets that have sewer and utility manholes, which need raised, this program will show you how to do this at a reasonable cost.

Fit to be Tied: Retrofitting PCC Pavement with Dowel Bars

Washington State DOT / FHWA	Video/VHS Format	52 min
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Part 1: Gives the rationale for placing the bars, and shows in detail the installation.
Parts 2 & 3: Records of installations in Kansas and Indiana.

Full Depth Reclamation - URBAN

1995 © Caterpillar Video/VHS Format 12 min
Good introduction to the process of pulverizing and mixing the asphalt roadway and part of base to form a stronger base to receive new paving.

Gravel Road Maintenance: Meeting the Challenge - Disc 1 of 2

2005 Minnesota LTAP, CTS Video/DVD Format
This 2 DVD set shows maintenance workers, supervisors and engineers the right way to perform gravel road maintenance. Also shows the public what can be done, what is being done and why it needs to be done. Designed as a training tool in conjunction with the Gravel Roads Maintenance and Design Manual. Covers: correct roadway shape, shaping the roadway, good surface gravel, and dust control.

Gravel Road Maintenance: Meeting the Challenge - Disc 2 of 2

2005 Minnesota LTAP, CTS Video/DVD Format
This 2 DVD set shows maintenance workers, supervisors and engineers the right way to perform gravel road maintenance. Also shows the public what can be done, what is being done and why it needs to be done. Designed as a training tool in conjunction with the Gravel Roads Maintenance and Design Manual. Covers: correct roadway shape, shaping the roadway, good surface gravel, and dust control.

Great Barrier Systems - Graffiti Removal

Discovery / GMA Video/VHS Format 10 min
Combating graffiti with products that reduce the ability of paint to stick to surfaces. Also segment from Good Morning America

Guardrail Installation and Repair

1989 Washington and Alaska T2 Centers, FHWA Video/VHS Format 20 min
"W" Beam installations. Lecture presentation employing slide photography.

Guidelines for Spring Highway Use Restrictions

FHWA, WSDOT Video/VHS Format 26 min
Presents an overview of the spring "thaw weakening" problem in pavements and discusses where, when, and how much load restriction to apply.

Large Cold Planer - Inlay Patching

1988 ODOT Video/VHS Format 17 min
Description of pavement failure when grinding is a good option. With example demonstrations including sweeping, tacking and paving.

Liquid Surface Treatment

1988 Connecticut DOT Video/VHS Format 27 min
Training program for chip seal application: safety procedures, roadway preparation, distributor considerations, chip spreading, aggregate rolling, and post-application treatment.

Maintaining Asphalt Roads- Blade Patching

1992 New Mexico State Highway & Transport. Dept. Video/VHS Format 12 min
A thorough presentation on the use of a motor grader to place a patch of premix.

Maintaining Gravel Roads in Arkansas

Arkansas T2 Video/VHS Format 9 min
This video discusses the requirements for maintaining an aggregate road surface. Shows the use of a motor grader to shape and/or smooth the wearing surfaces, shoulders, and ditches.

Micro-surfacing: Use, Application, and Inspection

1994 © Video University Productions Video/VHS Format 1 hr 40 min
A very thorough presentation on the placement of micro-surfacing. Video uses still and motion photography which are employed to illustrate all facets of placement procedures. The presentation is somewhat marred by not being professionally narrated.

Moving Roadway Maintenance - Tape 1 of 3

APWA Video/VHS Format 3 Tape Set - 3 hrs
This is a video record of the APWA teleconference, "Moving Roadway Maintenance into the 21st Century." The broadcast was on August 18, 1999. The question and answer sessions involving the viewing audience are included.
Tape 1: Michigan DOT's approach to preventive maintenance.

Moving Roadway Maintenance - Tape 2 of 3

APWA Video/VHS Format 3 Tape Set - 3 hrs
This is a video record of the APWA teleconference, "Moving Roadway Maintenance into the 21st Century." The broadcast was on August 18, 1999. The question and answer sessions involving the viewing audience are included.
Tape 2: The functioning of the county Road Advisory Board (CRAB) of Washington
State New Technologies:

- Rosan
- Superpave
- Cold In-place Recycling
- Thin Whitetopping
- Asset Management

Moving Roadway Maintenance - Tape 3 of 3

APWA

Video/VHS Format 3 Tape Set - 3 hrs

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Tape 3: Pave Tech's van mounted system for pavement rating using digital Temporary Traffic Control (ATSSA) imaging

Partial Depth Patching

Illinois DOT

Video/VHS Format 18 min

Video presents step-by-step procedures for using bituminous materials to make repairs in AC pavement.

NOTE: Your agency may not have all the types of equipment shown.

Pavement Repair: Do the Right Thing at the Right Time

Minnesota Local Road Research Board (LRRB)

Video/VHS Format 21 min

A supposed property owner explains pavement distresses and possible methods of pavement rehabilitation. Good for non-technical audiences.

Pavement Structure Repair Techniques - Tape 1 of 2

1989 North Carolina ITRWE

Video/VHS Format

Part 1: Maintenance of Gravel Roads - emphasis on the correct operation of the motor grader in typical situations. 27 min

Part 2: Ditch Maintenance - where and how to use a motor grader or hydraulic excavator. 17 min

Part 3: Pothole Patching - demonstrates a routine six-step procedure for making permanent patches. 17 min

Part 4: Crack Sealing - analysis and identification of cracks, cleaning and preparation, sealant application, and squeegeeing. 16 min

Pavement Structure Repair Techniques - Tape 2 of 2

1989 North Carolina ITRWE

Video/VHS Format

Part 1: Shoulder Maintenance - use of motor grader for reshaping shoulders, or for low or high shoulder repair. 21 min

Part 2: Asphalt Chip Seals - discusses appropriateness of chip seals as well as the necessity of pre-placement repairs, proper materials, and proper technique. 21 min

Pothole Patching

Illinois DOT

Video/VHS Format 32 min

Part 1: Manual patching using cold mix:

Truck's tires are used for compaction. Patching using an emulsion dispensing kettle. The aggregate is spread manually and no compaction is done. 17 min

Part 2: Use of AMZ spray machine: 15 min

This program is for field crews using the equipment. This tape describes preventive maintenance routines.

Pothole Repair - Proven Practices

1998 Minnesota Local Road Research Board Video/VHS Format 14 min
A good short video for tried-and-true techniques for proper patching of potholes.

Pothole Repair in Asphalt Concrete Pavement

International Road Federation Video/VHS Format 13 min
This video presents some great tips on how to make fixed potholes stay fixed!

Pre-Mix Patching - Activity 112

1990 © Virginia DOT Video/VHS Format 9 min
The procedure shown uses a seven-person crew for traffic control, pothole filling, and rolling using a tow-able steel-wheeled roller. Three trucks are used.

Preventive Maintenance - Project Selection

2000 Video/VHS Format 30 min
This program stresses selecting the right treatment for the road at the right time. The video is a follow-up to the program "Protecting Our Pavements: Preventive Maintenance".

Preventive Maintenance Treatment - Tape 1 of 3

1997 Idaho LTAP Center Video/DVD Format
This is an edited record of the April 29, 1997 presentation by John Hopkins, then Director of the Idaho LTAP (T2) Center. This Ed-Net broadcast was received at several locations in Oregon.
Tape 1
Section 1: The Case for Preventive Maintenance 33 min
Section 2: Engineering a Preventive Maintenance Program 33 min
Section 3: Materials for Preventive Maintenance 24 min

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Tape 2

Section 4: Fog Seals & Rejuvenators	13 min
Section 5: Chip Seals	32 min
Section 6: Cold Thin Seals - Slurry Seals	18 min
Section 7: Cold Thin Seals - Micro-Surfacing	37 min

Preventive Maintenance Treatment - Tape 2 of 3

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Tape 3

Section 8: Thin Hot-Mix Asphalt Overlays	23 min
Section 9: Crack Treatments for Flexible Pavements	21 min
Section 10: Preventive Maintenance of Concrete Pavements	30 min

Preventive Maintenance Treatment - Tape 3 of 3

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Problems Associated with Gravel Roads

1995	FHWA	Video/VHS Format	55 min
	Part 1: Environment and Materials		16 min
	Part 2: Problems: Causes, Prevention, and Correction		23 min
	Part 3: Maintenance Equipment and Techniques		16 min

Protecting Our Pavements: Preventive Maintenance

1998	FHWA, AASHTO	Video/VHS Format	14 min
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This is a program to sell Preventive Maintenance. It is not a technical presentation on maintenance techniques. Through narration and testimonials, the cost effectiveness of preventive maintenance is presented. The intended audience is public agency management and elected officials.

Reading the Travel Way

2002	USFS	Video/VHS Format	16 min
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Focuses on understanding what the condition of a gravel road is and provides insights to proactively avoid costly repairs by properly addressing the road in its current condition. Shows rutting, washboarding potholes, destroyed road template, cracks, flour, loss of surfacing, excessive vegetation, water bypassing surface cross drains, damaged or filled cattle guards, damage to bridges and damage to fords.

Rehabilitation of PCC Pavements Using Hot Mix Asphalt Overlays

1993	© NAPA, Asphalt Institute	Video/VHS Format	17 min
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Illustrates the techniques of Cracking and Seating, Breaking and Seating, Rubberizing, and Sawcut and Sealing. Guidelines are presented for selecting the type of treatment to prevent reflective cracking.

Right Road, The

	© ED ETNYRE & Co.	Video/VHS Format	13 min
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Well presented overview of chip sealing operation. Very good illustration of computer controlled (ETNYRE) distributor operation.

Road Blading Forest Service Style

	USFS	Video/VHS Format	18 min
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Designed for the purpose of sharing the Forest Service philosophy and practices by giving a lot of good ideas on how to properly maintain gravel roads.

Save That Road- Asphalt Armor Coating- Chip Seal

	Oklahoma DOT	Video/VHS Format	35 min
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A thorough look at chip sealing: rock stockpiling site selection, equipment requirements, roadway preparation, equipment operation, and the most common problems.

Seal-coating: A Matter of Science and Skill

1993 Minnesota Local Road Research Board (LRRB) Video/VHS Format 16 min
An excellent overview of seal coating: fog, slurry, sand, and chip sealing, with emphasis on the chip sealing process. Good for maintenance crews to show technique, and for general audiences to explain procedures.

Skin Patching - Activity 111

1990 Virginia DOT Video/VHS Format 13 min
Dump truck mounted distributors and rock spreaders are used to place chip seals on distressed areas. No full-lane-width patching is shown.

Small Cold Planer Inlay Patching

1998 ODOT Video/VHS Format 17 min
This video demonstrates wheel path inlay patching, cold planning to remove distressed materials, and pavement and compaction of inlay materials.

Smoothing and Reshaping of Earth and Gravel Roads

1985 International Road Federation Video/VHS Format 20 min
Learn to blade and shape roads correctly. This video has 5 steps for smoothing and 7 steps for reshaping that will really help.

Smoothing and Reshaping the Traveled Way

2002 USFS Video/VHS Format 13 min
The Forest Service provides some excellent tips on how to smooth and reshape existing unpaved roads in this video.

Spot Reconditioning - Activity 113

1990 © Virginia DOT Video/VHS Format 8 min
In this operation a section of roadway is removed down to stable base, and plant mix is used to complete the repair. Equipment employed may be dump trucks, backhoe, motor grader, front end loader, vibratory compactor, concrete saw, and tack coat machine

Stockpile Recovery to Minimize Segregation

1999 FHWA Video/VHS Format 8 min
This program illustrates the problem of segregation in aggregate stockpiles and shows the proper procedure a front-end loader operator should use for truck loading.

Street Maintenance Safety

APWA Video/VHS Format 11 min
A series of still photographs is used to show typical maintenance activities and possible safety hazards. Good narration throughout. Especially good for new and inexperienced personnel.

Transportation Agencies Working Together - 2004 PMAT Pavement Maintenance Projects

2004 Oregon T2 Center Video/VHS Format 10 min

This video will give all agencies, regardless of size, information on how to work together and save money on projects.

Use of Chemicals to Manage Roadside Vegetation

1991 Purdue University Video/VHS Format 1 hr 34 min

This is a 9 module series available on a single tape which fits well into a class/training situation.

Module 1: Roadside Vegetation Control is Necessary

Module 2: Plant Biology for Roadside Vegetation Managers

Module 3: Characteristics of Chemicals Used 13 min

Module 4: Weed Control Programs 12 min

Module 5: Application Equipment 17 min

Module 6: Equipment Calibration for Roadside Vegetation Management 8 min

Module 7: General Problems Encountered in Chemical Applications 15 min

Module 8: Applicator/Operator Safety 23 min

Module 9: Public Relations for Roadside Vegetation Management 12 min

10 min

10 min

Utility Cut Repair: Doing It Right

1996 Minnesota Local Road Research Board (LRRB) Video/VHS Format 11 min

This tape provides an excellent overview of the topic by showing how to repair utility cuts properly.

What is Anti-icing?

1995 FHWA Video/VHS Format 8 min

An introduction to anti-icing and deicing techniques. This program is good for general audiences.

Winter Maintenance Preparation

2001 IDOT Video/VHS Format 55 min

Discussion of winter maintenance preparation covering the following subjects:

This is a 9 module series available on a single tape which fits well into a class/training situation.

- Plow and Blades
- Spreaders and Spinners
- Forecasting Chemical Application
- Pre-Storm Preparation
- Plowing Techniques
- Post-Storm Cleanup