

## **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.

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## **Bituminous Seal Coat**

Washington DOT 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.

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## **Blading Unpaved Road**

National Association of County Engineers, FHWA Video/VHS Format 22 min  
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.

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## **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

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## **Cold Planing Revolution, The**

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

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## **CPR (Concrete Pavement Repair) for City Streets**

1985 Dow Corning Corp, Iowa DOT, ACPA Video/VHS Format 22 min  
Details of repairing concrete pavements.

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## **Development of a Quick Change Sign Post System**

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

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## **Effective Pavement Preservation: Conditions, Causes and Cures**

2002 Ohio LTAP, FHWA Video/VHS Format 18 min  
This video presents information to help facilitate a better understanding of Pavement Preservation concepts, but does not constitute a standard, specifications, or regulation.

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## Equipment and Maintenance Series (Tape 6)

Utah DOT	Video/VHS Format	
Part 1: Routine Structure Cleaning Superstructure, deck, and drainage system cleaning. Procedures are demonstrated on medium and large concrete bridges.		2 hrs 17 min
Part 2: Maintaining Drainage Cleaning channels, culverts, drop inlets, and catch basins. Rural road settings are shown.		10 min
Part 3: Remove Minor Slides and Clean Ditches Using grader and loader to remove material and reshape ditch (mountain/canyon settings).		12 min
Part 4: Guardrail Maintenance Typical section, turned down end, and attachment to bridges.		16 min
Part 5: Edge Rut Repair/Grading Gravel Shoulders Placement and shaping of shoulder material.		17 min
Part 6: Mowing Guidelines and Techniques When? Where? How?		9 min

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## Equipment and Maintenance Series (Tape 7)

Utah DOT	Video/VHS Format	
Part 1: Patching With Hand Tools The use of pavement breaker and tamper to repair potholes in AC pavement. The first few minutes of the program are taken up with an explanation of how a truck's hydraulic system is used to a power the tools.		1 hr 53 min 12 min
Part 2: Pothole Patching The use of non-powered hand tools to patch potholes.		16 min
Part 3: Temporary Patching Patching done with aggregate or asphalt material using broom, shovel, and Darby rake.		7 min
Part 4: Crack Sealing The use of air or heat wand, sealant wand, and squeegee.		8 min
Part 5: Bituminous Seal Coats		17 min
• Preparation, placement and rolling		11 min
• Transverse and longitudinal joints		8 min
Part 6: Maintaining Non-hard Roads Use a grader to reshape an aggregated road.		9 min
Part 7: Bituminous Surface Placement Use of grader and roller in repairing an alligator cracked surface that does not have base failure. A cold bituminous mix is used.		12 min
Part 8: Repair of Wheel Rutting Blade patching a full lane width using a cold bituminous mix.		13 min
Part 9: Base Repair Excavation and repair are made with front-end loader, grader, and steel-wheeled roller. Granular material is used for sub-base and base, a cold bituminous mix for the pavement.		

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## **Everyone Pay for Potholes**

Cornell University

Video/VHS Format

27 min

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

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## **Fit to be Tied: Retrofitting PCC Pavement with Dowel Bars**

Washington DOT/FHWA

Video/VHS Format

52 min

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.

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## **Flowable Fill**

Southeastern Fly Ash

Video/VHS Format

22 min

Well presented scenes of flowable fill being used as pipe bedding, trench backfill around pipes, bridge approach fill, void fill, and as large volume fill.

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## **Forest Roads and the Environment**

2002 USFS

Video/VHS Format

16 min

This video provides 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.

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## **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.

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## **Gravel Road Maintenance: Meeting the Challenge**

2005 Minnesota LTAP, Center for Transportation Studies 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.

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## **Guardrail Installation and Repair**

1989 Washington and Alaska T2 Centers, FHWA

Video/VHS Format

20 min

"W" Beam installations. Lecture presentation employing slide photography.

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## **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.

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## **Handling Hot Mix Asphalt**

1994 © NAPA

Video/VHS Format

16 min

A good presentation on the tasks performed by a paving crew. This is a program for audiences with no knowledge of paving operations.

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## **How to Get More Out of Your Motor Grader**

1998 © John Deere Training Center

Video/VHS Format

25 min

This program provides information on using a motor grader for remaking road surfaces including scarifying the roadbed, pulling ditches, and building new crowns on the roadway surface.

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## **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.

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## **Layton Manufacturing Tow Paver Training Video**

© Layton Manufacturing

Video/VHS Format

20 min

H 500 Pull Paver training video for the new operator.

- How the adjustments affect the operation
  - How to transport the paver and safety tips
  - Preparing paver to pave and safety tips.
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## **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.

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## **Maintaining Asphalt Roads- Blade Patching**

1992 New Mexico State Highway and Transportation Dept. Video/VHS Format

12 min

A thorough presentation on the use of a motor grader to place a patch of premix.

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## **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.

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### **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.

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### **Modern Motor Grader Operation**

© John Deere Video/VHS Format 26 min

This video gives a lot of tips on what graders can do, such as how to blade roads, cut side slopes, and pull ditches.

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### **Moving Roadway Maintenance**

APWA Video/VHS Format 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.

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

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

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### **Operator Daily Maintenance of Asphalt Distributors**

1985 FHWA Video/VHS Format 16 min

A short, comprehensive video on the major areas that need to be taken care of when using an asphalt distributor.

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### **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.

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### **Pavement Management Systems for Local Administrators**

1990 FHWA Video/VHS Format 17 min

This video was made to help cities and counties make a pavement management plan for their roads and streets.

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## **Pavement Structure Repair Techniques (Program One)**

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 17 min
Part 3: Pothole Patching - demonstrates a routine six-step procedure for making permanent patches.			16 min
Part 4: Crack Sealing - analysis and identification of cracks, cleaning and preparation, sealant application, and squeegeeing.			

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## **Pavement Structure Repair Techniques (Program Two)**

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 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.			

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## **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: This program is for field crews using the equipment. This tape describes preventive maintenance routines.			15 min

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## **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.			

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## **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!			

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## **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.			

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## **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".

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## **Preventive Maintenance Treatment**

Video/VHS 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

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

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

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## **Protecting Our Pavements: Preventive Maintenance**

1998 FHWA/AASHTO Video/VHS Format 14 min

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.

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## **Rehabilitation of PCC Pavements Using Hot Mix Asphalt Overlays**

1993 © NAPA, Asphalt Institute Video/VHS Format 17 min

Illustrates the techniques of Cracking and Sealing, Breaking and Sealing, Rubberizing, and Sawcut and Sealing. Guidelines are presented for selecting the type of treatment to prevent reflective cracking.

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## **Road Blading Forest Service Style**

USDA Forest Service Video/VHS Format 18 min

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 Armour Coating- Chip Seal**

Oklahoma DOT

Video/VHS Format

35 min

A thorough look at chip sealing: rock stockpiling site selection, equipment requirements, roadway preparation, equipment operation, and the most common problems.

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## **Single and Multiple Surface Treatments**

1985 © International Road Federation

Video/VHS Format

14 min

Take the 8 proper steps to making a good surface treatment. This tape will tell you how.

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## **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.

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## **Small Cold Planer Inlay Patching**

1998 ODOT

Video/VHS Format

17 min

This video demonstrates wheel path inlay patching, cold planing to remove distressed materials, and pavement and compaction of inlay materials.

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## **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.

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## **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.

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## **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

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## **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.

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## Use of Chemicals to Manage Roadside Vegetation

1991	Purdue University	Video/VHS Format	1 hr 47 min
<p>This is a 9 module series. Each module is available on a separate tape, which is useful when a specific area of information is needed. Also, the whole 9 module series is available on one single tape, which fits well into a class/training situation. Copies from the series handbooks, to use along with the tapes, are available upon request.</p>			
Module 1: Roadside Vegetation Control is Necessary			13 min
Module 2: Plant Biology for Roadside Vegetation Managers			12 min
Module 3: Characteristics of Chemicals Used			17 min
Module 4: Weed Control Programs			8 min
Module 5: Application Equipment			15 min
Module 6: Equipment Calibration for Roadside Vegetation Management			23 min
Module 7: General Problems Encountered in Chemical Applications			12 min
Module 8: Applicator/Operator Safety			10 min
Module 9: Public Relations for Roadside Vegetation Management			10 min

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### Utility Cut Repair: Doing It Right

1996	Minnesota Local Road Research Board (LRRB)	Video/VHS Format	11 min
<p>This tape provides an excellent overview of the topic by showing how to repair utility cuts properly.</p>			

### Utility Cuts in Paved Roads

1996	LTAP	Video/VHS Format	41 min
<p>This program might be used for crew training, inspector training, or review with contractors.</p> <ul style="list-style-type: none"><li>• Why patches fail</li><li>• Planning the cut</li><li>• Locating existing utilities</li><li>• The operation from cut to clean-up</li></ul>			