

Bituminous Paving Inspection Series - Tape 3 of 6

1991 Michigan DOT Video/VHS Format 40 min

A series of programs designed to be used in the training of employees of the Michigan Department of Transportation. Each program should be previewed to be sure it is applicable to an agency's operation.

Paving Operations

- Surface preparation
- Mix delivery
- Course types
- Inspection
- Paver operation

Bituminous Paving Inspection Series - Tape 4 of 6

1991 Michigan DOT Video/VHS Format 31 min

A series of programs designed to be used in the training of employees of the Michigan Department of Transportation. Each program should be previewed to be sure it is applicable to an agency's operation.

Rolling Operations

- Joint construction
- Compaction requirements
- Rolling principles and procedures
- Density control
- Final surface checks
- Pavement markings (tape application is shown)

Bituminous Paving Inspection Series - Tape 5 of 6

1991 Michigan DOT Video/VHS Format 22 min

A series of programs designed to be used in the training of employees of the Michigan Department of Transportation. Each program should be previewed to be sure it is applicable to an agency's operation.

Crushing and Shaping

This program shows the in-place recycling of pavement into base material.

Bituminous Paving Inspection Series - Tape 6 of 6

1991 Michigan DOT Video/VHS Format 25 min

A series of programs designed to be used in the training of employees of the Michigan Department of Transportation. Each program should be previewed to be sure it is applicable to an agency's operation.

Rubblizing

This program shows the in-place rubblizing of concrete pavement to provide base material for an asphalt overlay.

Bituminous Plant Inspection

Washington State DOT

Video/VHS Format

37 min

Good introduction to plant operation for anyone unfamiliar with the preparation of bituminous mixes.

Part 1: Bituminous mixes, batch plants

Part 2: Drum mix plants

Cold In-Place Recycling

1990 Asphalt Recycling & Reclaiming Association Video/VHS Format

10 min

Overview of single unit and "train" recycling methods. Good introduction to the topic for anyone unfamiliar with cold in-place recycling.

Concrete Pavement Overlays

1994 FHWA - SHRP

Video/VHS Format

22 min

- Design considerations
 - Pre-overlay repair
 - Surface preparation
 - Concrete placement and curing
 - Joint sawing and sealing
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Concrete Testing

1993 Michigan DOT

Video/VHS Format

39 min

Demonstrates test methods for checking the quality of Portland Cement Concrete from field samples. The tests use standards developed by the Michigan DOT.

Part 1: Sampling Temperature & Slump

Part 2: Acme Air Meter and Roll-A-Meter

Part 3: Molding Cylinders, Molding Test Beams & Testing Beams

CPR (Concrete Pavement Repair) for City Streets

1985 Dow Corning Corp, Iowa DOT, ACPA

Video/VHS Format

22 min

Details of repairing concrete pavements.

Early Opening of Full-Depth Concrete Repairs

1994 FHWA - SHRP

Video/VHS Format

10 min

Steps to a successful early opening: planning, scheduling, and evaluation.

Effective Pavement Preservation: Conditions, Causes and Cures

2002 FHWA, Ohio LTAP

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.

Field Control Test for Quality Control of Fresh Concrete

1987 © PCA Video/VHS Format 48 min

A good video showing the procedures of testing concrete in the field.

Forum on Major Factors Affecting Asphalt Concrete Pavement Performance

1998 TRB Video/VHS Format 1 hr 30 min

This program is a recording of presentations made at the 77th Annual Transportation Research Board Meeting held in Washington, DC in 1998.

Part 1: Effect of Contractor Operations on Pavement Performance 30 min

Part 2: Paver Operations - Getting it Down Right and Smooth 30 min

Part 3: Segregation - The Birth of a Pothole? 30 min

This presentation is based upon the 1997 AASHTO report "Segregation Causes and Cures for Hot Mix Asphalt"

Forum on Major Factors Affecting Asphalt Concrete Pavement Performance

1998 TRB Video/VHS Format 1 hr

Part 4: Compaction - The Last Chance to Do It Right

This presentation is important for contractors, project managers, inspectors, and roller operators. 30 min

Part 5: Effect of Mix Variability on Pavement Performance. This program should be of interest to mix designers and quality control personnel. 30 min

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.

Hydrated Lime- Key to Improved Asphalt Pavements

National Lime Association Video/VHS Format 20 min

Learn how lime improves asphalt pavements and how to introduce it into the asphalt mix.

Introduction to Rehabilitation of Highway Concrete

1994 FHWA - SHRP Video/VHS Format 10 min

This video provides an overview of rehabilitation topics which are covered more thoroughly in separate video programs. Concrete Rehabilitation User's Manual is also available for loan. This publication contains complete guidelines and guide specifications for the procedures shown in the video programs.

- Full-Depth Repair
- Partial-Depth Repair
- Pavement Overlays
- Bridge Deck Overlays

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.

Placement Inspection

1984 © PCA Video/VHS Format 13 min

Concrete placement, vibration of concrete, joint construction, and general concepts of good construction practices. Sampling and testing of ready-mixed concrete. Placement by buckets, buggies, conveyor belts, and pumping.

Portland Cement Concrete Plant Inspection - Truck Mix Plants

1993 FHWA Video/VHS Format 27 min

All aspects of truck mix plant operation are examined: dry and liquid material measure calibration, batching, truck charging, truck mixing and agitation, and truck cleaning and inspection. Program is suitable for interested non-technical audiences.

Post-placement Inspection

1987 © PCA Video/VHS Format 28 min

How concrete should be protected during both hot-and cold-weather, protection of test specimens cast during placement, inspection of form removal, re-shoring on multi-story projects, and sawing of joints in pavement.

Pre-placement Inspection

1987 © PCA Video/VHS Format 31 min

Shown are inspection of excavation and foundations, forming, placement of reinforcement and embedment, and proper location and placement of pre-formed joints. Video includes inspection at the batch plant and final overall inspection before concrete is placed. Building construction is shown.

Preventing Rutting - Stripping Asphalt

USDOT

Video/VHS Format

22 min

Having trouble with rutting or stripping? This video will help you understand why and methods to resolve the problems.

Principles of Quality Concrete

1994 © PCA

Video/VHS Format

31 min

Discusses all phases of achieving high strength concrete, from selection of materials to placement and curing.

Quality Control of Concrete On-Site - Tape 1 of 4

1994 FHWA - SHRP

Video/VHS Format

14 min

- Selecting test sample from pour stream
 - Testing temperature
 - Testing of slump
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Quality Control of Concrete On-Site - Tape 2 of 4

1994 FHWA - SHRP

Video/VHS Format

17 min

- Testing of air content
 - Testing for unit weight
 - Making of cylinders and beams for testing
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Quality Control of Concrete On-Site - Tape 3 of 4

1994 FHWA - SHRP

Video/VHS Format

18 min

- Water content measurement
 - Thermal effects evaluation
 - Maturity monitoring
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Quality Control of Concrete On-Site - Tape 4 of 4

1994 FHWA - SHRP

Video/VHS Format

18 min

- Temperature-matched curing
- Pulse velocity testing
- Nuclear density testing

* These are new or modified test procedures developed by SHRP.

Quality Control of Concrete On-Site -- User's Manual is available for loan.

Quality Edge-Concrete Flatwork Videotape Training Series, The - Tape 1 of 6

1994 © PCA

Video/VHS Format

18 min

Basic Finishing Techniques For Concrete Flatwork

Covers finishing tools, strike-off, bull floating, waiting periods, edging, jointing, floating, troweling, and brooming. Details the ordered sequence of steps for finishing and reasons for following them.

Quality Edge-Concrete Flatwork Videotape Training Series, The - Tape 2 of

© 1994 © PCA

Video/VHS Format

16 min

Curing Concrete Flatwork

Explains the purpose of curing, how curing increases strength, techniques for hot and cold weather curing, and curing methods: liquid compounds, plastic sheeting, and wet burlap.

Quality Edge-Concrete Flatwork Videotape Training Series, The - Tape 3 of

© 1994 © PCA

Video/VHS Format

12 min

Joints & Crack Control

Covers the types of joints: control, isolation, and construction, and provides guidelines for joint location and spacing to effectively control cracking.

Quality Edge-Concrete Flatwork Videotape Training Series, The - Tape 4 of

© 1994 © PCA

Video/VHS Format

16 min

Basic Techniques for Placing Flatwork

Discusses the tools, supplies, and subgrade preparation required for quality concrete placement. Includes selecting the right size crew, form-setting techniques, reinforcement positioning, ordering concrete, adjusting the slump, and the methods used to place concrete correctly.

Quality Edge-Concrete Flatwork Videotape Training Series, The - Tape 5 of

© 1994 © PCA

Video/VHS Format

21 min

Quality Control: Avoiding Slab Defects

Explains how to avoid the practices that cause common defects such as scaling, pop-outs, cracking, crazing, blistering, and discoloration. Illustrates each of these defects and shows how to prevent them by using the appropriate concrete mix and proper construction methods.

Quality Edge-Concrete Flatwork Videotape Training Series, The - Tape 6 of

© 1994 © PCA

Video/VHS Format

15 min

Subgrade Preparation and Forming

Illustrates how to prepare the subgrade to avoid unwanted cracking and settlement of the concrete slab. Shows how to remove hard and soft spots, backfill trenches, and select fill material. Covers the materials and techniques used to construct forms of various sizes and shapes.

Sampling Aggregates

1989 Michigan LTAP Video/VHS Format 26 min

Collecting representative aggregate samples using standards developed by the Michigan Department of Transportation. Sampling is from stockpiles, conveyor belts, and hauling units.

Ultra-Thin Whitetopping: Today's Choice for Durable Pavement Overlays

1994 American Concrete Pavement Assoc., NR Video/VHS Format 8 min

A quick overview of the placement of 2 to 4 inches of concrete on existing AC. (This is an industry promotional program).

Weather and Loads: The Effect They Have On Roads

1991 Minnesota Local Road Research Board (L Video/VHS Format 17 min

A program for non-technical audiences explaining deflection of pavements and the special problem of spring thaw.

What's Hot Mix Asphalt

1994 © NAPA Video/VHS Format 11 min

A good overview of asphalt concrete production and placement for audiences with no knowledge of pavements. This is a promotional program from the Hot Mix Asphalt industry.
