

Caterpillar Integrated Tool Carrier (with forklift attachments)

ODOT Imaging Group	2003	Video/VHS Format
Learn about different uses for a caterpillar including forklift attachments, how to check fluid levels and grease the fittings.		20 min

Chain Sharpening Discussion

© Blount, Inc.	1991	Video/VHS Format
A very thorough review of chain sharpening practices. Part 1: Hand sharpening Part 2: Sharpening with a grinder.		24 min

Chainsaw Selection & Maintenance

© National Arborist Association	1992	Video/VHS Format
A good program on maintaining a saw: fueling, cleaning, and sharpening. Production of this program was partially funded by Shindaiwa, Inc., Tualatin, Oregon.		12 min

Equipment and Maintenance Series - Tape 1 of 8

Utah DOT	Video/VHS Format
Overview Equipment Operation and Maintenance Introduction to UDOT's preventive maintenance program.	116 min
Motor Grader	13 min
Part 1: Motor grader characteristics: start-up, walk around inspection, engine checks, lubrication, cab inspection, and shut down	
Part 2: Blade positions and maneuvering	18 min
Part 3: Grading shoulders: blade mixing asphalt, leveling, and cleaning ditches	17 min
Part 4: Preventive maintenance: oil change, fluid checks, filter checks and changes, and lubrication	17 min 9 min
Loader Operation	
Part 1: Pre-trip inspection: start up procedures, loader controls, and shutdown	
Part 2: Maneuvering and basic operations	19 min
Part 3: Preventive maintenance: oil change, fluid checks, filter checks and changes, and lubrication	14min 9 min

Equipment and Maintenance Series - Tape 2 of 8

Utah DOT	Video/VHS Format
Weed Sprayer	101 min
Part 1: Major components of an operator two tank black/red system	
Part 2: Daily preventive maintenance and operating techniques	11 min
Dump Truck	14 min
Part 1: Daily check, start-up, and shutdown	
Part 2: Operating a truck with a two-speed single rear axle: shifting, driving, braking, turning, backing, loading, dumping, and spreading	12 min 11 min
Part 3: Operating a thirteen-speed tandem-axle	
Part 4: Working with Pups (Pup trailers): hookup, towing, loading dumping, spreading, and unhooking	21 min 14 min
Part 5: Preventive maintenance	18 min

Equipment and Maintenance Series - Tape 3 of 8

Utah DOT	Video/VHS Format
Crane Operation	130 min
Part 1: Preventive maintenance of a hydraulically operated yard runner and of a truck mounted crane	18 min
Part 2: Correct operation of the crane	
Bucket Truck	19 min
Part 1: Daily checks and preventive maintenance	
Part 2: Safe operation of winch, auger, and bucket	22 min
Forklift	15 min
Part 1: Operating techniques	
Part 2: Preventive maintenance	14 min
Rotary Mower and Tractor	8 min
Part 1: Daily checks, lubrication, and blade changing	
Part 2: Operation and operation techniques	9 min
Part 3: Preventive maintenance	11 min
	14 min

Equipment and Maintenance Series - Tape 4 of 8

Utah DOT	Video/VHS Format
Straight Blade Snow Plows	177 min
Part 1: Mounting on truck, daily checks, and storing	
Part 2: Blade usage	10 min
Highway Sanders	10 min
Part 1: Hookup, daily checks, operation, cleanup, and storage	
Part 2: Sander calibration for salt usage	13 min
Crack Sealer Operation	12 min
Part 1: Major components, valves, and controls	
Part 2: Daily check, lighting, agitation, application, and cleanout*	19 min
* The cleanout procedure shown may violate disposal standards.	21 min
Tar Pot (with attached distributor bar): Components, daily checks, operation, and cleanout.	
Cracker Sealer and Tar Pot Preventive Maintenance: Bearing lubrication and servicing the engine.	9 min
Bulldozer Preventive Maintenance: Daily checks (fluid levels and lubrication), start-up, and shut down.	10 min
	13 min

Equipment and Maintenance Series - Tape 6 of 8

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

Equipment and Maintenance Series - Tape 7 of 8

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	
• Preparation, placement and rolling	17 min
• Transverse and longitudinal joints	11 min
Part 6: Maintaining Non-hard Roads Use a grader to reshape an aggregated road.	8 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.	9 min
Part 8: Repair of Wheel Rutting Blade patching a full lane width using a cold bituminous mix.	12 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.	13 min

Equipment and Maintenance Series - Tape 8 of 8

Utah DOT	Video/VHS Format
Tow Type Sweeper Operation	112 min
Part 1: Daily check and operation	
Part 2: Preventive maintenance	16 min
Rollers	8 min
Part 1: Pneumatic Tire Roller Operation	
Part 2: Preventive maintenance	18 min
Part 3: Steel Wheel Roller Operation. Daily check, start-up and warm-up, hookup and towing, basic operation, rolling techniques, and shutdown	12 min 20 min
Air Compressor	
Daily check, start-up, tool hookup, operation, and shutdown	10 min
Structure Inspection	
Procedures for routine inspection of steel and concrete structures and concrete decks	18 min

How Attachments Improve Backhoe Loader Versatility

© John Deere Corp.	Video/VHS Format
Fifty innovative attachments are featured for John Deere tractors. See how attachments improve the working of the machines utilization and productivity.	15 min

How to Get More Out of Your Motor Grader

© John Deere Corp.	1998	Video/VHS Format
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.		25 min

Layton Manufacturing Tow Paver Training

© Layton Manufacturing	Video/VHS Format
This video covers training and safety for tow pavers which can be used for most governmental and commercial paving applications, are a third of the cost, have fewer systems to fail, and provide ease in transporting and operation.	20 min

Loader Operation

Washington State DOT	Video/VHS Format
Part 1: Pre-trip inspection, start-up procedures, loader controls, and shutdown procedures. Important features of an equipment management preventive maintenance program.	35 min 20 min
Part 2: Maneuvering and operating loaders. Shows new operators the capabilities of a machine and their responsibility for daily machine maintenance.	15 min

Loading and Towing Heavy Equipment

Illinois DOT	Video/VHS Format
Proper connection of trailer to towing vehicle, pre-trip inspection of trailer/vehicle combination, and proper loading of equipment.	14 min

Maintenance Procedures for Backhoe Loaders

© John Deere Corp. Video/VHS Format
Backhoe loaders require scheduled maintenance. This video will help you keep it in the best of conditions. 12 min

Maintenance Welding: Techniques and Applications - Tape 1 of 3

Michigan LTAP 1995 Video/VHS Format
Arc Welding 50 min

Maintenance Welding: Techniques and Applications - Tape 2 of 3

Michigan LTAP 1995 Video/VHS Format
General Welding Safety and Tank Repair 57 min
General Welding Safety and Tank Repair

Maintenance Welding: Techniques and Applications - Tape 3 of 3

Michigan LTAP 1995 Video/VHS Format
Gas Welding and Metal Identification 87 min

Modern Motor Grader Operation

© John Deere Corp. Video/VHS Format
This video gives a lot of tips on what graders can do, such as how to blade roads, cut side slopes, and pull ditches. 26 min

Motor Grader Operation

Washington State DOT Video/VHS Format
Part 1: Components of a grader, start-up procedures, and proper equipment 54 min
operation in a preventive maintenance program 17 min
Part 2: Maneuvering, operation, and shutdown procedures
Part 3: Six steps for proper operation 16 min
21 min

Motor Grader Preventive Maintenance

New Mexico LTAP 1994 Video/VHS Format
Preventive maintenance procedures during pre-check, start-up, operation, and shutdown. 12 min

ODOT District 3 Berm Shaper Innovation

Oregon DOT 1999 Video/VHS Format
How the Berm Shaper works on I-5 and how you can adjust it to cut sod and vegetation. 11 min

Operating Tips: Track Type Loaders

© Caterpillar Video/VHS Format
Illustrates routine maintenance procedures and proper operating techniques. 19 min

Operational Tips and Techniques for Backhoe Loaders

© John Deere Corp.

Video/VHS Format

Describes basic operation of John Deere backhoe loaders.

15 min

Plow Power

New England APWA

Video/VHS Format

Demonstrates plowing techniques in residential areas.

15 min

Pneumatic Tire Roller

Utah DOT

Video/VHS Format

Part 1: Pneumatic Tire roller Operation: daily check, start-up and warm-up, basic operation, rolling techniques, and shutdown.

18 min

Part 2: Rollers PM-A: preventive maintenance routines for pneumatic tire and steel wheel rollers with attention to fluids, filters, and lubrication.

13 min

Preventive Maintenance Series: Introduction

Nebraska DOT

Video/VHS Format

An introduction to a series of tapes on proper operation of heavy equipment. The need to regularly check equipment is stressed.

14 min

Preventive Maintenance Series: Loaders

Nebraska DOT

Video/VHS Format

Part 1: Pre-trip inspections, start-up procedures, loader controls, and shutdown

20 min

Part 2: Maneuvering and basic operations

16 min

Preventive Maintenance Series: Motor Grader

Nebraska DOT

Video/VHS Format

Part 1: Basic Information, start-up, and shutdown

Part 2: Blade positions and maneuvering

19 min

Part 3: Operating techniques: grading shoulders, blade mixing asphalt, laying cold mix, and pulling ditches

18 min

Part 4: Blading unpaved roads

18 min

18 min

Preventive Maintenance Series: Mowers

Nebraska DOT

Video/VHS Format

Part 1: Pre-trip inspections

Part 2: Operations

15 min

15 min

Preventive Maintenance Series: Snow Plow and Spreader

Nebraska DOT

Video/VHS Format

Part 1: Equipment and hookup

Part 2: Daily checks

13 min

Part 3: Techniques

16 min

19 min

Preventive Maintenance Series: Tilt Bed Trailers

Nebraska DOT		Video/VHS Format
Part 1: Pre-trip inspections, hooking up, and loading		
Part 2: Towing, basic maneuvering, unloading, and loading materials (guardrail and pipe)		15 min 12 min

Preventive Maintenance Series: Trucks

Nebraska DOT		Video/VHS Format
Part 1: Pre-trip Inspection, start-up procedures, and transmissions		
Part 2: Basic maneuvering, dump box operation, and shutdown		19 min 18 min

Public Works Equipment in Retrospect

© APWA	1991	Video/VHS Format
A series of still photographs are used to show the evolution of equipment from horse drawn, to steam, to motorized equipment.		21 min

Rubber Tire Roller Calibration

Pennsylvania DOT	1991	Video/VHS Format
Presents procedure for selecting correct tire pressure.		16 min

Safely Controlling the Power of the Backhoe/Loader

© Vista		Video/VHS Format
This 3 part video program packs a lot of information in and includes manuals for facilitators, participants and a short quiz. The training tapes are entitled:		
<ul style="list-style-type: none">• A Walk Around the Backhoe/Loader.• On-the-job Operating Safety Awareness• Maintenance/Transportation		

Sand and Salt Spreader Calibration

Baystate Roads Program, Massachusetts' LTAP	2006	Video/DVD Format
This DVD guides highway employees through a successful spreader calibration and explains the proper techniques and calculations.		13 min

Snow Removal Techniques - Plowing Tips from the Pros

© Vista	1997	Video/VHS Format
A discussion of the techniques shown in this program might be a good start in preparing road crews for winter.		23 min
Note: The snow conditions shown are more severe than most Oregon agencies encounter and the equipment shown may be more sophisticated than is generally available.		

Snowplow and Spreader Operations

Nebraska DOT		Video/VHS Format
Part 1: Equipment: Mounting of plow and the tailgate spreader		
Part 2: Daily Checks: Inspecting and servicing		15 min
Part 3: Plowing and spreading techniques, plowing speed, and position		13 min 19 min

Ten Wheel Dump Trucks

Delaware DOT

Video/VHS Format

Covers pre-check, start-up, operation, and shutdown procedures.

22 min

Understanding the Vibratory Roller

© NAPA

1995

Video/VHS Format

Using jobsite scenes, graphics, and tabletop demonstrations, this program demonstrates the proper use of the vibratory roller and how vibration aids compaction.

18 min

Using Snow Plows on Motor graders

FHWA LTAP

1998

Video/VHS Format

This program shows the use of the front single, the 'V', and the wing plow.

15 min

Winners... Losers

© Caterpillar

Video/VHS Format

This film demonstrates good lift truck operation as well as showing some of the consequences of incorrect practices.

13 min