TTAP Equipment Operation and Maintenance Videos

**Daily Operation & Maintenance of Class 33 Truck**

MN DOT 1980 10 minutes Video ID # 25
Describing a routine for properly caring for a class 33 truck. Includes trouble shooting techniques to keep the vehicle in top condition.

**Driver Daily Maintenance of Light Vehicles**

IRF 1985 18 minutes Video ID # 26
Shows the driver performing proper daily preventive maintenance procedures on light vehicles such as pick-ups and station wagons and why these procedures are necessary. Detailed maintenance activities from the pre-start check to the shut-down check at the end of the day are demonstrated step-by-step.

**Equipment Maintenance: Programming & Scheduling with Tom Valente**

Montana State Univ. 1983 45 minutes Video ID # 27
Discusses original and maintenance costs of equipment, operator checks, mechanic inspections, scheduling maintenance, service manual, schedule revisions, repair, parts procurement frequency, inventory on hand, and determining stock levels.

**Excavators--Volume 1 (The Excavator)**

Equipment Training Resources 1997 12 minutes Video ID # 277
This video serves as an introduction to excavators. It begins by identifying the various parts and components of the machine. Safety and maintenance concerns of excavators are covered in detail as well as pre-op inspection.

**Excavators--Volume 2 (Trench Digging)**

Equipment Training Resources 1997 12 minutes Video ID # 278
Digging trenches is the most common work task expected of excavators, and this video does an excellent job of covering common trenching procedures. The scope of the video includes all aspects of the job, from starting the job through providing a safe and proper trench for utility installation.

**Excavators--Volume 3 (Trench Servicing / Backfilling)**

Equipment Training Resources 1997 12 minutes Video ID # 279
This video shows bedding procedures that are common to utility installation, and how they are performed. In addition, the video covers safety concerns, machine setup techniques and compaction procedures.

**Excavators--Volume 4 (Loading Haul Units)**

Equipment Training Resources 1997 12 minutes Video ID # 280
Loading trucks is one of the most common tasks that an excavator operator will face. This video covers the many aspects of this procedure that will ensure success for future operators.
**Excavators--Volume 5 (Benching / Sloping)**

Equipment Training Resources  1997  12 minutes  Video ID # 281

Benching is a cut and fill process that is fundamental for performing many basic excavator operations. It is used in attaining a proper machine setup as well as pioneering roads. This video covers this fundamental of excavator operation so that operators can apply these principles to their own job.

**Heavy Highway Equipment Maintenance - Motor Grader (Module 9)**

FL T2 Center Van Program  58 minutes  Video ID # 213

This module deals with the daily maintenance of bulldozers, motor graders, and front-end loaders before, during, and after operation.

**Heavy Highway Equipment Maintenance: Front End Loader (Module 11)**

FL T2 Van Program  75 minutes  Video ID # 215

This module covers the operation of motor graders and front end loaders. It encompasses the areas of operating techniques, safety and maintenance.

**How Attachments Boost Backhoe Productivity**

Deere & Company  1989  16 minutes  Video ID # 28

Relates the functional uses of attachments on backhoes. Demonstrates how the user can do more with one piece of equipment.

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

Deere & Company  1989  25 minutes  Video ID # 29

The motor grader is the essential tool for building and maintaining roads. This video focuses on the motor grader operator. It explains the motor grader for road construction and maintenance.

**Loader Operation (Parts 1-2)**

WA DOT  1989  33 minutes  Video ID # 30

Features pre-trip inspection, start-up procedures, loader controls and shut-down procedures. Covers the important features of an equipment management preventive maintenance program. Features suggestions on maneuvering and operating loaders.

**Motor Grader Operations**

John Deere  1985  54 minutes  Video ID # 32

Basic functions and advantages of the hydraulic articulated motor grader. A new breed of operator is required to take full advantage of the hydraulic equipment over the mechanical motor graders of the past.
**Motor Grader Preventative Maintenance**  
NM Hwy & Trans. Training Academy 1995  12 minutes  Video ID # 33  
Daily preventive maintenance means taking care of your equipment. The importance of reading your operating manual, routine checks before starting the machine, proper operating procedure, cool down before shut off, end of the day maintenance and proper do.

**Operating Tips: Hydrostatic Loader**  
Caterpillar  17 minutes  Video ID # 34  
Discusses the improvements of hydraulic loaders to the power shift loader. Details the workings of the hydrostatic drive system and the controls of the loader. Includes information on performing daily checks on the loaders systems.

**Operator Daily Maintenance of Rollers**  
IRF  1985  22 minutes  Video ID # 35  
Methods and procedure for operation of rollers includes the pre-start check for damaged parts, fluid leaks and filters, warm-up check for noises, steering, gauge check, sprinkler system, and daily operating check for noises, performance, and shutdown procedure of brakes, readings, fueling, lubrication and cleaning.

**Small Fleet Management in Public Works (Sessions 1-6)**  
APWA  1992  260 minutes  Video ID # 38  
Training courses for small fleet managers. The course covers various aspects of fleet management including getting the most out of the equipment, budgeting equipment money and time, dealing with other agencies and the importance of having good communication within the agency.

**Ten-Wheel Dump Truck**  
Delaware DOT  22 minutes  Video ID # 36  
Start-up operations and shut-down procedures for ten-wheel dump trucks. Transmission, gearing and shifting instructions. Emphasis on proper shut-down.

**Track Type Loader**  
Caterpillar, Inc.  19 minutes  Video ID # 217  
Promotional video about getting the most out of the Caterpillar track type earth moving equipment. Points out the many tasks that can be accomplished with the track type loaders and their inherent limits.

**Trenchers--Stay Alert, Stay Alive**  
Equipment Training Resources  1991  13 minutes  Video ID # 3  
The video provides a thorough and well organized look at the safety methods and correct practices for trenching machinery operations. Emphasizes the moment to moment safety awareness that is essential to safe trench work.
Wheel Loader Operating Tips and Techniques
Caterpillar 1990 22 minutes Video ID # 37
Video operations manual for a Caterpillar wheel loader. This video covers the following eight topics: safety, walk around inspection, operator’s compartment, setting the VCTC, loading the bucket, truck loading, load and carry, and shutting down the machine.