

Forest Applications News
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ArborGames



www.forestapps.com

Forest Applications
News
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A new area of information available from Forest Applications Training.

By Tim Ard

In most of the presentations I make every month, participants observe me talking and doing. I'm sure, or at least I hope, they are able to retain some of the information passed to them. I know it is hard to remember everything I see. It sticks with me better after I review it or do it myself. I feel the smaller group hands-on sessions are able to achieve better results. More retention for use in future applications. I think this is true, if not because the participants get to try it themselves, but because in smaller groups material can be covered more in-depth and I as an instructor can make sure all participants get a chance to ask any pertinent questions they may have.

If you have ever attended a Forest Applications Training session, you know there is a lot of detail paid to the planning process and to the basics and mechanics of saw applications. I feel these planning processes are the keys to safe and productive saw operation. There are in the process many techniques discussed that participants find interesting and useful. These are an accumulation of many years traveling with Soren Eriksson and also several years on my own. Learning from acquaintances along the way...

Now you can have many of these planning processes and techniques in an interesting review form. The Forest Applications Training eBook is available in a unique computer format that's search-able and quick to find answers to your saw operation questions. It's also great to use in monthly safety meetings or tailgate sessions right on the job site. The eBook is available in printed binder form or you can purchase the printable version and simply print what you want to right on your computer printer.

The eBook CD ROM has over 200 pages of print, photos and video clips to illustrate saw techniques and safety in a unique way. It covers PPE, planning, felling, limbing, bucking, maintenance and general safety of chain saw applications.

Whether you are a professional logging firm, tree care, city or municipality, state employee or just an interested homeowner that uses a chain saw occasionally, this complete guide is for you.

To order your eBook copy -

Visit our online eStore at
<http://www.forestapps.com/e-book/eStore.htm>

Inquire by email info@forestapps.com

Call the Forest Applications Training office at 770-459-3791

Here are a few highlights and pictures direct from the eBook.

Chapter 9 Understanding Felling Techniques

There are many ways to fell a tree and no two people probably accomplish the task exactly the same way. Depending on what part of the country you live in, who you work for, or who you learned your tree felling skills from will influence how you fell a tree. Each method has its merits and I will discuss a number of these, but I will concentrate my detailed discussion on the 'open-face technique' of directional felling which I promote and teach in my training programs.

Importance should be placed on the plan that selects the technique – every tree is different.

Directional felling is placing the tree in a desired location, not necessarily where it wants to go. Employing directional felling techniques simplifies the felling process in that you can control where and to a certain extent how the tree falls. Directional felling techniques allow you to move away from the falling tree and observe its descent from a safe distance rather than standing right beside the tree using 'trial by fire' techniques.



Notching



Bore Cuts



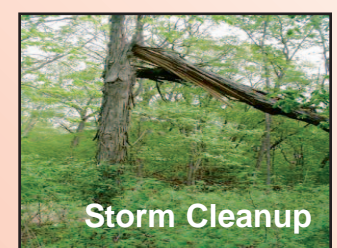
Back Cuts



Segments



Springpoles



Storm Cleanup

Thank you...
Husqvarna, PFERD and Oregon
for your 2002 sponsorship of the
news!

Tamarack Forestry Services

Stillwater Camp, Canton, NY



We had a great two days in the outback of New York State. I mean way back... I thought Georgia had long dirt roads, but to get to the Stillwater camp, you have to pass a lot of trees and gravel road.

We were hired by Tamarack to work with their line clearing and site installation crews from around New York. They are contractors to the New York State Electric. They do a lot of work with chain saws.



Special thanks to Matt and RJ for inviting us.

It was super working with your crews and partaking of the great food and scenery of Stillwater.

We not only covered a lot of dirt road, but had great sessions on PPE, sharpening, maintenance, felling techniques and some hazard tree removals with the crews.

Laura and I are looking forward to next time.

West Virginia

In April, we returned to West Virginia for a training session with foresters from around the East involved with the Hardwood Utilization Council. Ed Murriner put the program together. It familiarize the foresters with directional felling techniques to improve tree placement, to protect residual trees in the stand, and to reduce pulls and breakage of the fiber for better utilization of the wood harvested.



We had a great time with the group. We had a pretty tight competition too between the group. Charlie Brown of West VA took first place.

Big Stone Gap, Virginia

In May, we began another year of training in the Tri-state area, Virginia, Tennessee and Kentucky. There were 14 for day one and 13 for day two of the training held right on the Virginia-Kentucky border in Wise county. The site was being worked by Skyline Logging for Gilbert NS Lumber. Gilbert is cosponsoring the training with the local logging participants.

This is great group and we will be finished with the training prior to the logger competition to be held in Duffield, VA the Saturday of the Labor Day weekend. Past and current training participants are welcome to compete in the Duffield Days event for over \$2000 in cash and prizes.

New England Tour

Lenox, MA -The town of Lenox hosted an area demonstration organized by the LTAP program from the University of Massachusetts. It's called the Bay State Roads Program. We have worked with Bay State before but it is our first time into Western Mass. The demo was attended by 71 county and DOT employees from the area. They all seemed to really enjoy the inside and outside session.



Storrs, CT- Sponsored by the LTAP program from the University of Connecticut. Held at the asphalt lab facility in Storrs. The program went well ending up with falling a large dead tree at the back of the grounds. The group was very interested in the inside and outside portions of this demonstration. We hope to be back in Storrs this fall for a Connecticut Career Day.

Bridgeport, CT - A two-day program was held for city and county workers. This was hands-on with some super competition. We had a great site near a golf course with trees to cut. All the fellows did a super job. PPE, felling, springpoles and bore cut. After a hard day of training, the guys still enjoyed a round of putting competition on the green. I wasn't going to even attempt to compete in that one. I think Julio took one of the competitions - maybe the golf... no I think the saw... probably both?

Yarmouth, MA - This trip was about our 5th to Yarmouth. We began a two-day hands-on program, and because of weather, we only completed one-day of the two-day agenda. The wind blew and blew both days, (probably 50+ miles per hour) and the first day was also in pouring rain. We managed to make it through the first day agenda so we plan to return in the fall and finish the second day.

Cumberland, RI - A one-day demonstration was organized by Jeff Cathcart of RI LTAP for the Cumberland area. 55 attended the session, which we ended with a felling demo on two trees near the building. They were all attentive and seemed to enjoy the session.



New Bedford, MA - Dave Willis of Husqvarna booked us into Fairhaven True Value in New Bedford. They were having an open house and we did a little carving.



Hope, RI - Over one weekend Jeff Cathcart knew we had a few hours off so he spoke to a local rental center (Right Rentals), they

checked with Dave Willis of Husqvarna and we came by to carve a little.



Potterville, RI - This program was a two-day hands-on at the Potterville Fire Dept. and the



trees were marked by the Providence Water - Situate Reservoir forestry. A super site for the train-

ing. All the guys did super! This area has hosted our programs for years and, coordinated by Jeff Cathcart, the class is always great and full.



Bill Eldred

Construction Career Day - Coventry, RI

One of the most rewarding programs we have been part of in the past couple years is our work with the Rhode Island Construction Career Day. The event was held this year at the RIDOT facility in Coventry, RI. The program is part of the LTAP program in Rhode Island. The coordinator, Jeff Cathcart, and a committee of State, Business and Union workers from across RI put together this second annual event for high school and special education classes. The one-day event made it possible for students, who will soon be entering the job market, to try out various types of construction equipment under a professional operator's watchful supervision. The students love it!



I did several chain saw carvings to draw attention to chain saw operations and then discussed safety and the many uses of chain saws and brushcutter work in clearing and construction. Davey Tree was also there in force to offer students the ability to go up in a bucket truck or try their hand at climbing a tree.

After seeing the results of the program for the second year, and the faces and attitudes of the 900 or so students attending. I feel this is a most worthwhile program and hopefully will

More on page three...

take hold in other states across the country.

Thank you Husqvarna for making it possible for Forest Applications Training to attend and represent you there. Another true example of Husqvarna's commitment to the future!

LAURA'S CORNER

Stonington, CT



Heading back to Georgia our last stop was in Stonington where we held a one day demo for the city and county workers. Twenty-eight attended the session. We met

inside until lunch then headed over to a local park (beautiful park) where we took down a couple of trees that were damaged. It was our first time to Stonington but we hope not our last. Everyone really enjoyed the demo and we heard from participants they may be interested in a hands-on.

Sensible Woodcutting Videos are still available. Contact us via the website registration and we will send it to you no charge!
<http://www.forestapps.com>



Find out more on our **NEW e-book...**
The Complete Guide to Chain Saw Safety & Directional Felling

Visit our website at www.forestapps.com



Has it been hot in your town? We have been reaching the high 90's with heat index in the 100's in our home state of Georgia. After a week home for the Fourth, it is time to pack up the ol'bus and head back out.

As you may notice when you read our schedule, we try to connect our training sessions from state to state. Travel is a big cost factor for many these days with gas prices, or in our case diesel prices changing week to week. Then you add lodging, meals, etc. to the mileage and it can be more than you are paying for the day of training. So to help we book training back to back so that the travel becomes shared between the training organizations. Tim and I started traveling in a motor home four years ago and it has been a blessing for all involved. Not only has it saved the customer money but it has been a time saving's for us as well.

When an organizer calls and would like to book training we work to put a training package together that is cost effective for him or her.

Let's say someone calls from Hope, RI and would like to book three days of training. I then go to our calendar to see what dates we have available. I know we will be in the area in September. If this may work with his or her schedule, this is what I would offer to them:

Three training days at daily fees + travel (mileage = \$ x miles) =total. Travel includes mileage, meals, lodging, etc. If we were able to combine the session with travel to other customers, let's say three others in the general area, then the travel cost amount would be about 30% less. This would mean several hundred dollars in savings for his or her organization.

This saves the organizer a lot by booking the training around another training session. Of course, with more training booked around the training session, travel cost becomes even less.

If you are interested in organizing training in your area, please contact the office at 770-459-3791 or e-mail to info@forestapps.com. I am now booking dates for November/December 2002. - I hope to hear from you soon! - Laura

Cross-Sight

Up A Tree...

Is it important to know how tall a tree may be? If there are hazards and obstacles within its reach, it may well be! Now you can be a bit more confident in your planning process before felling a tree. The Cross-Sight from Forest Applications Training, offers you pocket size tree measurement. Folding to fit easily in your pocket, you can now have a tool at hand to quickly size up a tree.

You can read more about the Cross-Sight on our web at <http://www.forestapps.com>. The tool may be purchased from **our new eStore on the web** or from Sherrill, Inc. at 1-800-525-8873. The cost is \$12.00.





Oregon® is very pleased to announce the long-awaited release of several upgrades to one of its world-leading products for the mechanical timber harvester market: **18H chain**. This perennial top performer has been improved in five ways to make it better than ever.

Two new built-in oiling enhancements:

1. Larger oval-shaped LubriLink™ oil reservoir in each tie strap. Holds twice as much oil as our previous tie straps, which keeps more oil where it's needed - on the chain.

2. LubriWell™ oil hole in each drive link. An "oil well" hole in the drive links now transports even more oil along the bar's groove. With more oil contained in the bar's groove from LubriWell™, and more oil at mid-chassis from LubriLink™, the cutting system is kept at maximum protection from too little lubricant. This is especially valuable in mechanical harvesting conditions where it's usually extremely inconvenient to do on-site oiling by hand.

Other recent 18H upgrades:

Along with a focus on improving .404"- chain-pitch system lubrication, we have already implemented three other upgrades to 18H and are announcing them now as we implement the new LubriLink™ and LubriWell™ features.

3. Advanced, upgraded chrome-plating process. Maximum cutter stay-sharp; holds its edge in brutal conditions involving high speeds and cold weather.

4. Joints are pre-lubricated at assembly. Reduces damage to the rivet's bearing surfaces during machine start-up.

5. Improved rivet-hole finish in drive links. Reduces chain stretch and increases the life of the chain chassis.



Chain won't turn? Check to make sure the chain tension is set correctly.



The front of your chain's cutters should **always** face and drive towards the tip of your bar.

You're trying to get some work done in the yard, and the trusty old chainsaw is acting funny; here's what to do when:

Chain won't turn; Check for:

- Tension too tight
- Burred drive links
- Pinched bar groove
- Chain off sprocket
- Bar sprocket nose frozen
- Chain brake engaged
- Adequate bar/chain lubricant
- Debris (chips) in bar groove or drive sprocket

Slow cutting; check for:

- Dull cutters
- Depth gauges too high
- Clutch slipping
- Bar groove too wide
- And, believe it or not, chain on backwards

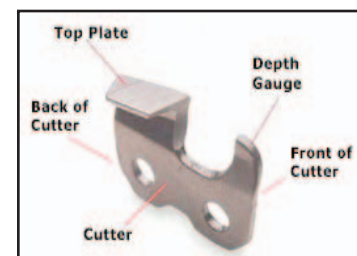
Chain cuts crooked; check for:

- Low depth gauges on one side
- Uneven bar rails
- Cutters filed differently, one side to the other
- Damage to cutters on one side of chain from hitting the ground, a rock, or other foreign material

Finally, although we don't manufacture saws, we spend a lot of time with them, and when your %#@&?! chainsaw won't start.... **here's what we always check :**

- Ignition switch on
- Choke on
- Air filter clean
- Spark plug clean, gapped
- Plug wire on Saw gas in fuel tank

Having trouble with chain sharpening, remembering the correct angles, and so forth? You can get a free copy of our Maintenance & Safety Manual, with all the right info, just by e-mailing your snail-mail address to techservices@oregonchain.com and mentioning "MM."



Forest Applications Training, Inc. is proud to have Oregon® as a National Sponsor of this News publication and our training programs across the country.

Visit the Oregon® website at <http://www.oregonchain.com>. You can find a lot of information on products, safety and general use of chain saws as well as purchase from their unique on-line dealer system. Let'em know where you heard about it... Tim

This page is an example of the great information found on the www.oregonchain.com site. These articles are direct from their site. Check it out!



Husqvarna

Once upon a Redwood



While out at the Cal Poly Swanton Pacific Ranch in Davenport, CA, Wally and Jaff Mark, Laura and I hosted a training program for the Husqvarna Professional Power Team. David Perkins, director of training operations for Husqvarna, has hand picked a unique team of professionals to carry on product training to Husqvarna dealers and end users in North America.



The team has varied experience in training from handheld power tools like chain saws and brushcutters to commercial lawn equipment. The cross training has been going on since last winter to make these gentlemen the *best that they can be* and with saws, they are looking pretty sharp.

The team flew in from all over the country for a semi rustic two nights in the Urtz (I heard it called a lot of things. I'm not sure of the exact spelling.), an outside dorm facility, at the Swanton Ranch for the students. We began early the first morning with an outside breakfast and then a tour of some of the ranch by Wally Mark. Jaff doesn't speak much but communicates very well. He was always bringing things to the team.



After the tour, we began the PPE, maintenance and cutting skills segment of the program. The first day ended with a hike to the top of the mountain observing some huge redwoods and a ranch style steak cookout.

Day two began early with a drive to the cutting site. A coastal Redwood thinning project outside of Santa Cruz. It was awesome!

We did have to extend some of the cutting to a third day. The trees were large and took a bit longer for everyone to cut a tree. Some of the trees were 6 foot across the base. It is amazing, 6ft bases and they were just under a hundred years old. Most people think of the Redwoods as ancient and there are some older ones, but most of the harvests now are trees no older than a typical East Coast hardwood harvest. These trees are tall though. They ranged from 90' to 140' tall.

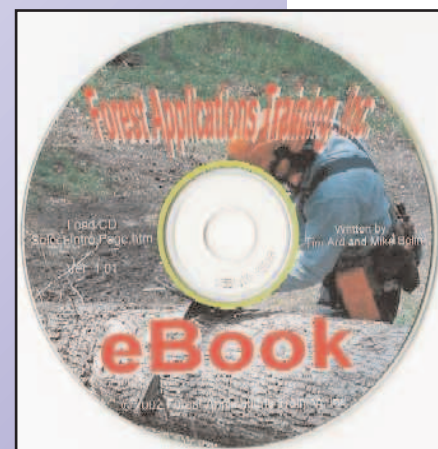


All the team took information and put together a safe working plan before cutting each tree. Naturally, we did have a little competition in the process. You wouldn't believe, out of all the trees, we only had one that may have been off target more than five feet. These guys did very well! They can all safely say the open face notch and the training techniques promoted by Husqvarna will work very well in the East and in the Western woods.

It was a pleasure to work with the group and a privilege to be able to use the Cal Poly site. Thank you Wally Mark, Doug Piirto and Cal Poly for the opportunity.



Order your Forest Applications eBook on-line today @ WWW.FORESTAPPS.COM



Richmond Logging Expo

Every other year loggers and many tree care companies are represented at the Logging Expo in Richmond, VA. The fairgrounds/raceway park are turned into one of the largest displays of logging equipment and wood industry equipment. From harvesting to the mill - products to handle wood are on display.

I have been part of the educational programs at the show now for several years. Mike Washko, show director, has done a great job setting up the event over the years and is a big promoter of training. Thanks to the show itself, Husqvarna, Oregon®, and PFERD Forest Applications was there putting on basic chain saw safety and felling demonstrations. Rip Tompkins of ArborMaster Training, Inc. also showed the crowds climbing and sawing techniques up the tree. So, top to bottom, all those coming by the demo area were shown some useful tips.

The event will be back in Richmond in May 2004.



Cal Poly Logging Team

Davenport, CA

Laura and I had the opportunity this year to again travel west and work with Doug Piirto's classes. Doug is the instructor of the logging/harvesting classes at Cal Poly University. The initial demo/training day was held at the Swanton Pacific Ranch near Davenport, and then hands-on with a smaller group on the following day. We traveled east of Santa Cruz to a logging site where we worked in a thinning project of coastal Redwood. The students had a great time and did very well with the tree falling. It's always a pleasure working at the Cal Poly Swanton Pacific Ranch.



Brushing - Part Two

By: Tim Ard

Last newsletter edition we discussed the selection of a brush/clearing saw unit and a little about setting up the machine to the operator. These are important topics and are very critical to the safety and productivity of the operator.

Another area, which effects safety and productivity is to select, or the selection of, cutting attachments for the task. The cutting tool used on the end of the shaft can effect the job results in many ways.

The right tool:

Cuts smoothly with minimum effort
Removes grass or small trees with ease
Reduces wear and vibration on the machine

The wrong tool:

May dull quickly
Cause vibrations
Cuts slowly
Increases operator fatigue

Grass and Brush Heads

Grass heads are available in manual, semi-auto and automatic designs. These usually are configured to hold cut lengths or bulk wrap of monofilament line. The line diameters for small grass trimming may be as small as .065" and for heavy grass or edging in the .130" to .150". These spinning lines will zip right through green grasses and weeds giving the results of a lawnmower or bush hog.

A couple manufacturers now produce a "swinging blade" head style that will edge or take heavier grasses with greater ease. There is much less resistance to grass and air with these swinging blades and allows the rpm to remain higher for better performance in higher, thicker weed applications.

Brush Blades for Heavy Debris

Metal blades for grass and brush are also available. Some of them are configured to the same shape as a circular saw blade but have only 6 to 12 teeth on the blade radius.

One type for heavier grass and brush is a tri-prong blade shape. These are usually heavier than the circular styles, and do a super job in brush and weeds. As long as you keep them, sharp and balanced they will perform. If they are dull or out of balance they can destroy a brushcutter shaft and gearbox in short order.

It is also important to understand these blades are not intended for woody fiber plants. Small trees and saplings should be cut only with a saw tooth (multiple teeth) blade.

Husqvarna

Tough Name. Tough Equipment.™

Blades for Woody Stems and Trees

If your task is cutting small trees and woody stems you should consider using a blade with small multiple teeth. These blades look much like a circular saw blade for your wood working saw. The one I suggest is one capable of being sharpened with a round chain saw file. Some of these blades are stamped, others are a disc with chain saw type cutters attached to the blade. Both types can do a good job. The advantage may be in the application where you apply it.

The thinner stamped blades offer the round file sharpening ability and cut a narrow clean kerf. This can be an asset in small hardwoods. The kerf can be adjusted slightly with a tooth set but if you need a wider kerf in the cut for less pinching, one of the chain saw style tooth blades may be an advantage.

A heavy-duty gear driven brushcutter with the proper attachment can produce a hay field in short order. Heavy grass, weeds and small trees can be taken down quickly and safely with a little planning and practice.

Future articles will discuss attachment maintenance and directional cutting techniques with brush and clearing saws.



Husqvarna
Clearing / Brush Saws

Tim's Time

Tim Ard's Schedule

Check the Website for up-to-date schedule listings

Itinerary: Tim Ard As of 5 July, 2002

July 2002

15-17 Roy O. Martin, Louisiana
 19 Logger Training Day 3 -KY
 23 Logger Training Day 3 - Covington, VA
 24 LTAP Program - Beckley, WV
 31 Logger Training Day 4 -KY

August 2002

2 Logger Training Day 4 - Covington, VA
 7 Oregon Logger Demo - Portland, Oregon Area (tentative)
 8-10 Oregon® Cutting Systems Training - Clackamas, OR
 16-18 Woodsmen's Day's Booneville, NY -Husqvarna
 21 New York State Electric Chain saw Demo - Husqvarna
 27 LTAP Demo - Cartersville, GA -Husqvarna
 28 LTAP Demo - Gainesville, GA
 29 LTAP Demo - Rockdale County, GA
 31 Logger Competition - Duffield, VA -Husqvarna

September 2002

10 LTAP Demo - Jesup, GA
 11 LTAP Demo - Tennill, GA
 14 Logger Competition - Clifton Forge, VA - Husqvarna
 24-30 New England States

October 2002

1-11 New England States
 15-17 Sunbelt Expo - Moultrie, GA - Husqvarna
 18 LTAP Demo - Tifton, GA
 19 LTAP Demo - Thomaston, GA

Have you tried one or all of the products we show in the News? Husqvarna Saws, Oregon Chain and Bars, PFERD Files, PFERD Chain Sharp/SharpForce, See Clear?

Send us a note and let us know what you think!

E-mail us at info@forestapps.com

If you haven't -- check out the Forest Applications website. You will find updated calendar events, special articles, up to date news, online newsletter... E-mail your questions, techniques, training interests and ideas of articles you would like to see in the news. All at <http://www.forestapps.com>
 e-mail: info@forestapps.com



Important Notice

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The Forest Applications News will continue to be available to readers *free of charge* on our Forest Applications Training website and also in the printed version mailed to your address *for four editions* following you attending one of our demonstrations or training programs.

After being on the mailing list for four editions, you make the selection to continue receiving the news for the following three years at a nominal fee of \$10.00 for a total of twelve editions – only \$.84 per issue. Your three-year subscription totaling \$10.00, is payable by check, cashiers check, or money order to Forest Applications Training, Inc. **You can also now pay by Credit Card from the eStore on our website at www.forestapps.com.**

Now for only \$10 – receive the remaining editions of 2002 and three more years of Forest Applications News – 12 total editions. Act now for this special offer!

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PFERD Filing

By Tim Ard

People are not always aware of the many different sizes of round files that are available to sharpen saw chain. 5/32, 3/16, 11/64, 13/64, 7/32, and 1/4 are all current sizes and there are probably two or three more. It's important to have the right size file for the saw chain tooth. You'll never get the proper results without the right size.

Even more likely is the file operator may not know there are two "cuts" of files from PFERD. They offer a standard and a smooth cut file. The preference is sometimes a Ford / Chevrolet thing, since everyone has a different idea of what a file should cut and last like. Some prefer a file that takes a lot of metal from the tooth on each stroke. Others want a little less bite and a very smooth tooth surface, especially at the chrome edge of the cutter. I prefer the smooth surface unless I am cutting wood in a area with a lot of abrasives.

If the tooth is damaged by abrasion (rock) then taking the tooth back past the damage is important. One trick I use is to tilt the Chain Sharp/Sharp Force tool. This allows the cutting edges to be filed back (using the center of the file's radius) past the damage quickly to straighten the tooth and angles. If I'm not using the guide, I simply use a two step file technique. Take a flat file and cut the damage from the cutting surfaces and correct the top angle. Then, take the round file and re-cut the tooth surface. It's quick, and really helps me keep my filing more precise.

If you try to take tooth damage off with a round file in normal position, it tends to push the file up or down from its proper position on the tooth. So it's

PFERD

We are amazed at the continued interest in the PFERD Chain Sharp (Husqvarna SharpForce) tool. Everywhere I go people are asking where to buy it and more details as to how to use the tool. - Tim

very easy to hook or backslope a tooth that's been damaged.

Give it a try... and also make sure you try the standard and smooth cut files from PFERD.

P
F
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D

... order your ChainSharp PFERD sharpening tool. How? Call PFERD 1-800-342-9015

PFERD's ChainSharp



PFERD

Covington, Virginia

The past three or four years I have instructed logger training in the Covington, VA area hosted by Westvaco and the VA Forestry Association. The classes have filled each year. This year the program is sponsored by Mead Westvaco and organized by the AFMG, a group of local forest industry supporter's made up of mills and logging companies.

The four day program will culminate with a logger competition in Clifton Forge, VA during the Allegheny Forestry Field Day September 14, 2002. Past and current training participants are welcome to compete in the Field Day event for over \$2000 in cash and prizes. Make your plans to attend - the competition and show will be Super!



Forest Applications

Don't Forget...

Contact us with your desired training dates as soon as possible.

Check out www.forestapps.com

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