



First stage

First semester

Workshops

Saw cutting

Lecture: 5 , Part 1

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Hand Saw Types and Their Uses

Hand saws exist in every toolbox, but they're not all the same. Each hand saw types are designed for a specific job, like cutting wood, metal, or something else entirely. Let's take a closer look at eight of the most common hand saws and how they're used.

1. Crosscut Saw

The crosscut saw is your choice when you need to cut wood *across* the grain. The teeth are designed to cut through wood fibers without leaving them ragged, so it's perfect for rough cuts where you need to cut a board or trim a piece of wood. If you need quick, clean cuts on lumber, the crosscut saw is the one to grab.



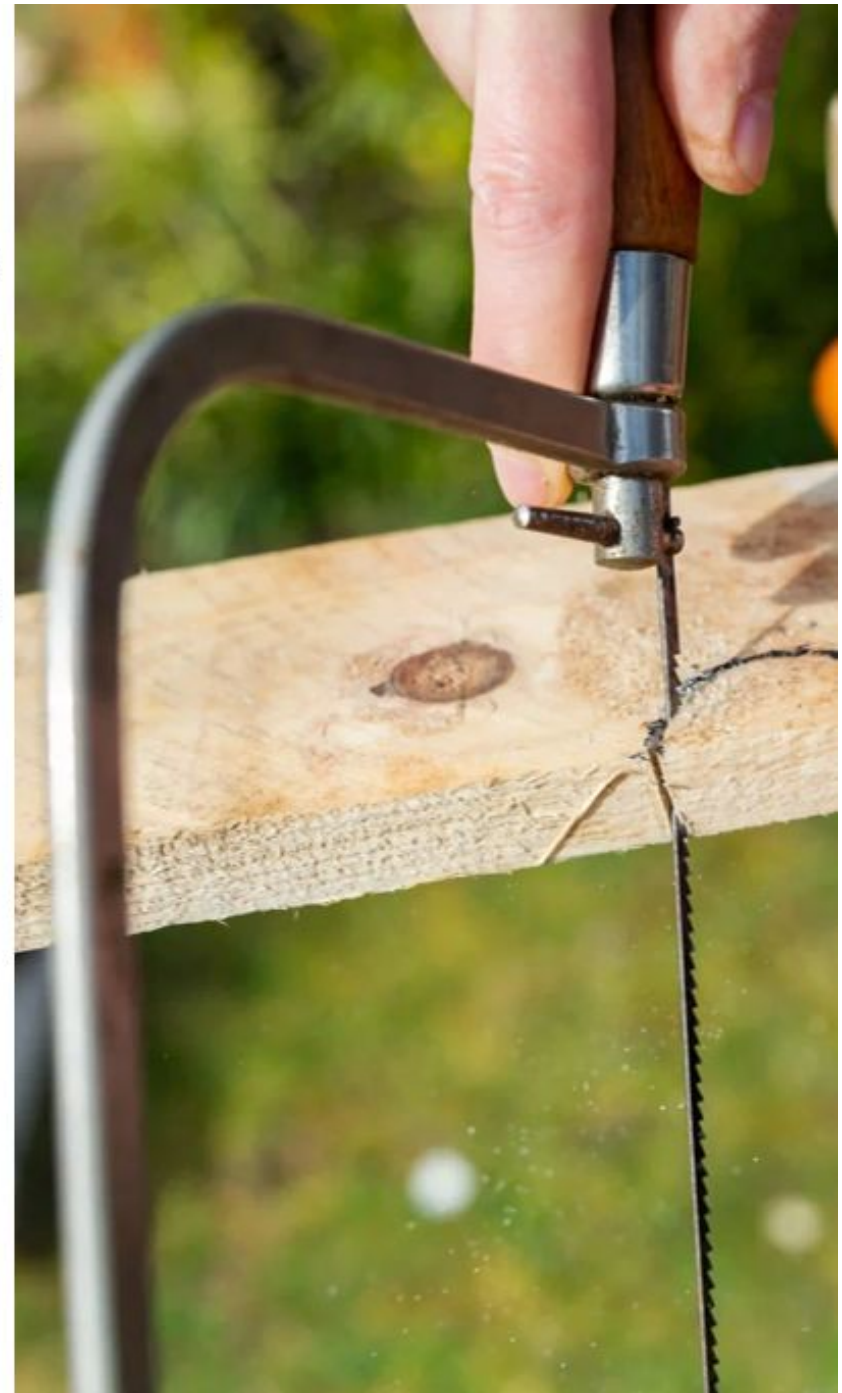
2. Rip Saw

If you're looking to cut wood *along* the grain, the rip saw is your tool of choice. The rip saw is built to cut straight down the grain, and its large and chisel-shaped teeth make it easier to do long cuts without getting stuck. This saw is perfect for when you need to rip boards down to size or create straight and clean lines in your lumber. Think of it as the tool you need when you're working with big pieces of wood and need accurate (long) cuts.



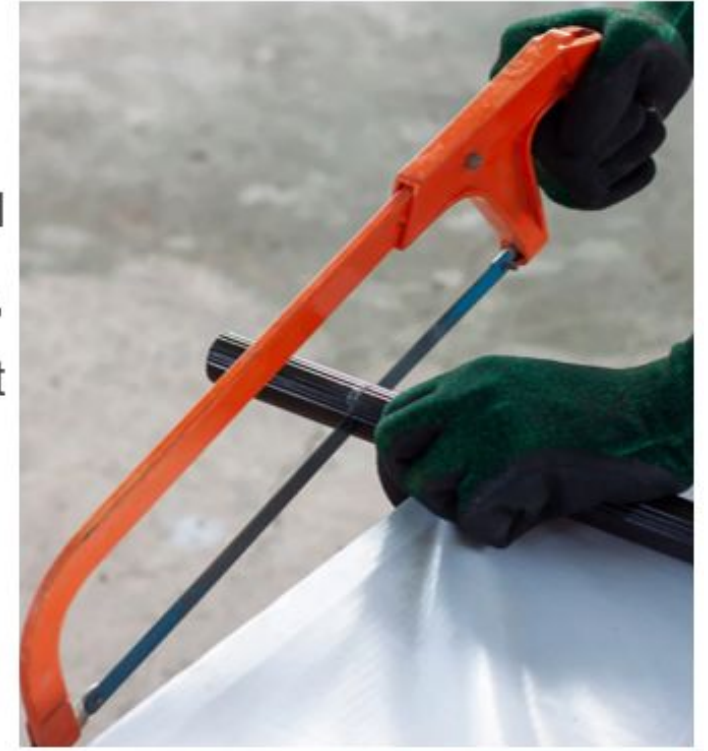
3. Coping Saw

The coping saw is like the accurate saw of the hand saw world. When you are working with curves or in tight spaces, this saw can help you out with its thin and flexible blade. But it's not just for wood, the coping saw can also handle plastic and light metals, so if you're doing stuff in the workshop and need to cut curves, the coping saw is your best choice.



4. Hacksaw

This saw's thin and replaceable blade is designed to make quick work of metal pipes, rods, and even thick plastics. What I love about the hacksaw is its versatility, if one blade wears down, you can just swap it out for another depending on what you're cutting. It's not flashy, but it gets the job done every time.



5. Keyhole Saw

Keyhole saws may look a bit weird, but the long and narrow blade helps with hard-to-reach spots, especially when you are working with drywall or plaster. Sometimes you need to carve out holes for some pipe or electrical box, and that's where this saw can help you! You can also use it for cutting curves or odd shapes. It's small but mighty!



Saw Weapon

Electric Hedge Trimmer:

Electric models are the choice of many homeowners, and for good reason. They are quieter, they need less maintenance, and because they run on electricity, you don't need any messy fuel mixing. The advantages of electric hedge trimmers over gas-powered ones don't end there; they're lighter than gas models and as a result, easier to handle if your project takes long time, or if you are working on something that needs to be accurate.



Concrete Sawing

London and other parts of the Great Britain are seeing massive action in building demolition and new infrastructure development industry. And thus, concrete sawing has emerged as an everyday or common need of construction businesses.

Equipment Used for Concrete Sawing

Equipment or machines used for concrete sawing application are known as concrete saws. These are electrically or hydraulic powered machines with diamond coated blades to effectively cut through concrete and other building materials. As similar to a tiller, these saws are operated in either hand-held or walk-behind mode of operation.

Concrete saws are available in different designs including circular, chain and jig blade. These saws use the diamond blade as an abrasive or core cutting technology and thus also known as diamond saws.



Personal protective equipment

Where it is not possible for emissions to be controlled at their source, or removed or reduced through effective ventilation, extraction or diversion, the use of personal protective equipment (PPE) as a final measure must be considered to ensure safety.

PPE is a lower order control and can only be used where higher order controls are not possible or are not totally effective. Selection and use of PPE requires careful consideration, as there are many different types that reduce the risk of injury of contact or exposure to a hazard. Incorrect use of PPE, or purchasing inappropriate PPE, can contribute to serious workplace incidents. PPE that is uncomfortable, restrictive or heavy may create secondary hazards, and, as a result, constant supervision may be necessary to ensure it is used effectively.



Ear muffs



Gloves



Particle half face respirator



Safety glasses