

The 100% Free

IUEC, Elevator Apprenticeship Tool Assessment: Free Preparation Guide

12minprep
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For IUEC Candidates and Elevator Industry Job Seekers

Dear Elevator Apprenticeship Candidate,

We created this guide especially for YOU! It's an opportunity to review some very basic tools you might be asked about in the Tool Assessment, the 4th step of the Elevator Constructor Apprenticeship application process. Expect to take this assessment right after the EIAT test.

Make sure to visit our website for more information about the [Elevator Industry Aptitude Test EIAT](#).

We will go over a total of 25 tools, divided into families:

- Hammers
- Wrenches
- Pliers
- Measurement tools
- Knives & Cutters
- Saws
- Other

We will also review the concepts of taking measurements and using a ruler

Let's start!

Hammers

Claw hammer



Mallet

To apply force to parts with a reduced risk of damaging them



Ball-peen hammer

For metals and peening (working a metal's surface to improve its material properties).



Wrenches

Wrenches provide grip and mechanical advantage in applying torque to turn objects.

Standard, adjustable wrench & spinner



Socket wrench (ratchet)

A ratchet consists of a round gear or a linear rack with teeth, and a pivoting, spring-loaded finger called a pawl that engages the teeth. allows continuous linear or rotary motion in only one direction while preventing motion in the opposite direction.

Different sizes of sockets can be used with a socket wrench, from hex sockets to socket bits



Tap Wrench



Pliers

A plier is a basic tool used to hold objects firmly, bend and compressing a wide range of materials.

Standard & long-nose pliers



Slip joint plier

Pivot point or fulcrum can be moved to increase the size range of their jaws



Patent plier

Automatically adjusts the jaws to the component, regardless of size and with the same pressure.



Measurement Tools

Tape Measure and Ruler



Spirit Level (or Level)

Indicates whether a surface is horizontal (level) or vertical (plumb).



Voltage tester (Fluke)



Cutters & Knives

Standard cutter (snip)



Tin snip



Wire cutter



Wire skinning knife



Saws

Hacksaw



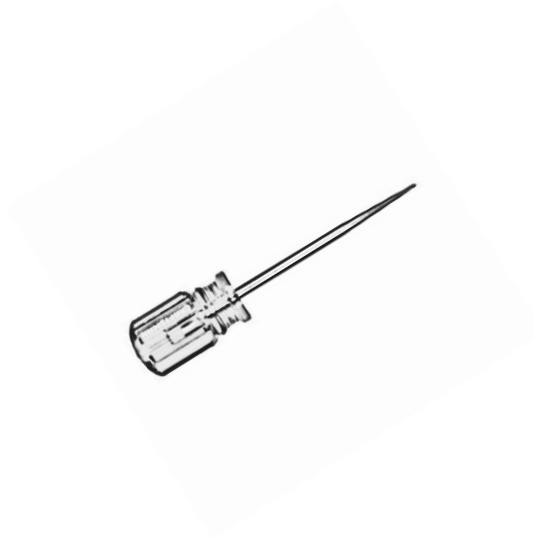
Drywall saw

For making relatively small cuts in drywall



Scratch awl

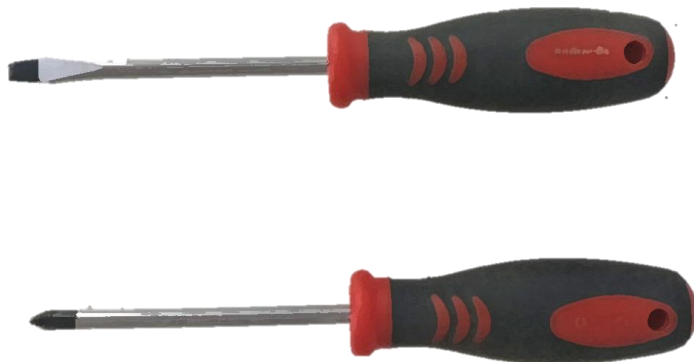
Used to scribe a line to be followed by a hand saw or chisel



Others

Screwdrivers

For a great guide to all screwdrivers [go here](#). Here are the two most popular types, the Flat head and Phillips. Another popular type is the **Stubby screwdriver**, which is simply smaller in size.



Allen Keys (Hex keys)



File

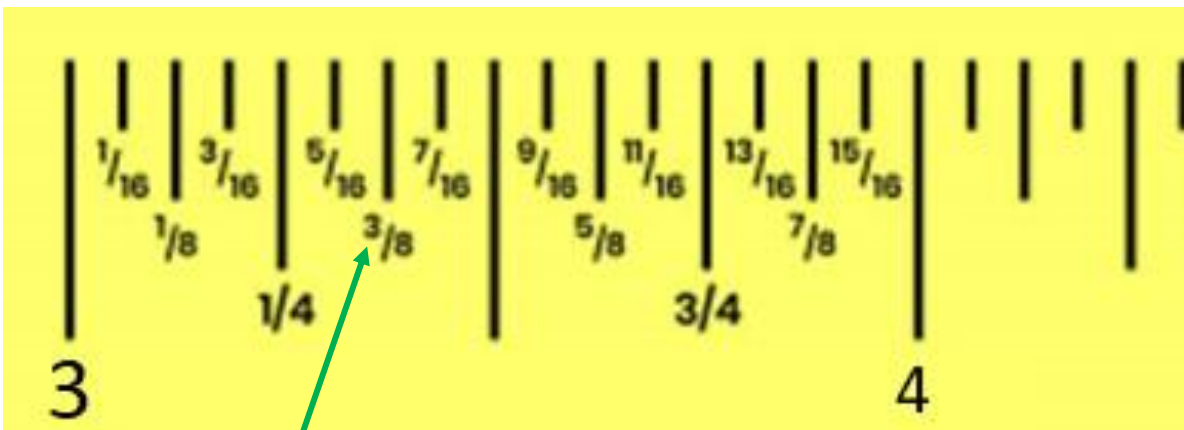
Used to remove fine amounts of material from a workpiece



Measurement and Rulers

Feet ′	Inches ″
1′	12″
2′	24″
3′	36″
4′	48″

Let's look at the example below, in two modes: zoom out and zoom in.



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Summary

We hope you found this guide helpful. Get more information about the EIAT test on our website:

[Take me to 12minprep](#)

Gideon and Team @12minprep