BERUFLICHES SCHULZENTRUM KRONACH

# WORKSHOP & TOOLS

Many Things To Use

Class::

ENGLISH Subject

Your Name:

Date:

# Workshop

A workshop is a room or an area inside a building that includes tools or **machinery**. In short, all the hardware that are required for the **manufacture** or repair of (mostly) technical products. There are three categories of tools:

- 1. \_\_\_\_\_: multi-purpose, simple devices, handy
- 2. \_\_\_\_\_: mobile tools, powered by electrical energy
- 3. \_\_\_\_\_: more complex, stationary tools



For the most of the time a technician works at his <u>work desk</u>. That's a quite solid table, where he can store his tools in the <u>drawers</u>, fix workpieces by a vice, lay down objects onto the <u>desktop</u>, can lock-up parts inside <u>lockers</u> or collect small parts in <u>utility boxes</u> or store larger parts in <u>shelves</u>.

**Task 1.** What do you see here? Name the parts of the work desk that can be seen in the picture.



|--|

Stan	Oliver		
Well, this my workbench. In these drawers here there	e		
are most of the tools I need for my job. Except for the			
tool I'm using today, of course. I put them out this			
morning when I got everything ready.			
	I know most of them, but what are these?		
Oh, in German they're called "Abisolierzange" – I			
think that's wire strippers in English. They're used			
for stripping electrical wires.			
	Oh, right. What do you do if you need special		
We get them from the tool shop. You get everything	tools?		
there. But we don't need any special tools today			
because we're making a warning light. So, the next			
step is soldering. Can you pass me the soldering iron	L <sub>y</sub>		
please?			
	Sure! Here you are. And here's the solder and a		
Thanks Okay, right. So now I'm soldering the LEI	D screwdriver.		
<b>Fask 3.</b> Answer these questions: 1) Where are Stan's to	ols?		
2) What does Stan do.	, if he needs special tools?		
,	-		
	d Hardy making today?		

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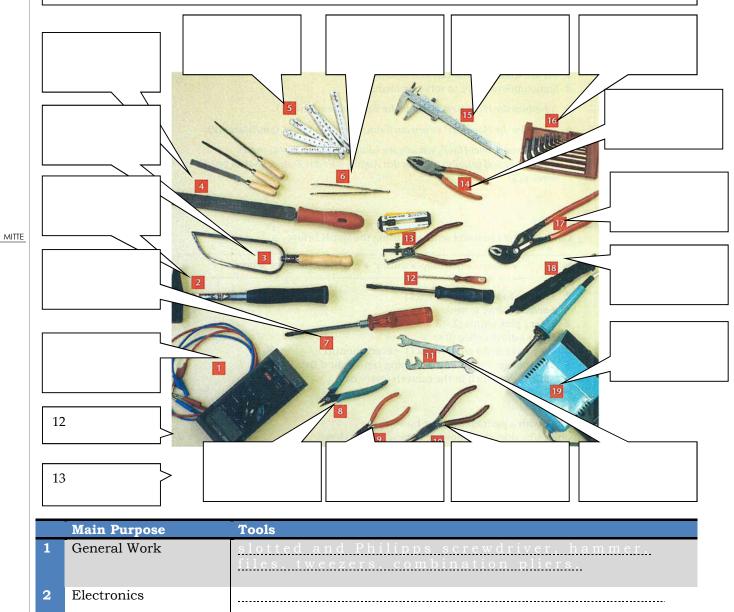
Date:

# **Hand Tools**

For the most of technical standard work, technicians use **hand tools**. They are very applicable, easy to handle and can be carried away to any place where to be used. You can either store them in a **tool box** or they find their place in **drawers** of a **workbench**.

Task 4. Here are the most common hand tools; match the names to the pictures.

(slotted) screwdriver, universal pliers, desoldering pump, Phillips screwdriver, long-nosed pliers, multimeter, folding rule, round-nose pliers, tweezers, files, wire stripper, Vernier caliper, spanner, side-cutting pliers, hacksaw, Allen keys, soldering iron, hammer, combination pliers



Metal Work

Measurements

3

4

паскза w

<u>Allen kevs, universal pliers, spanners,</u>

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Task 5. Say what the following tools are used for.

Start like this: "A screwdriver is used for turning screws."

Screwdrivers		bend	PCBs
A multimeter		cut	nuts and bolts
A hacksaw	1	tighten	voltage
Pliers	is long used for	turn	wires
Spanners	is/are used for	hit	things
A soldering iron		smooth	screws
A hammer		solder	nails
Files		measure	metal

### **Power Tools** Source: Dengarden.com

A **power** tool is a tool that is actuated by an additional **power** source and mechanism other than the solely manual labor used with hand **tools**. The most common types of **power tools** use **electric** motors

#### Task 6.

 A circular saw is able to <u>rapidly</u> cut through timber up to 90 mm in <u>thickness</u>, and it is an essential power tool for cutting sheets of <u>timber</u>. A circular saw will give a more "square" cut than a jigsaw because the blade is more <u>rigid</u>. 2) An **SDS drill** and drill bit has several <u>advantages</u>. Firstly, removing and inserting the bit is easy. The acronym SDS originates from the German *steck*, *dreh*, *sitz*, *meaning "insert*, *twist*, *fit"* 



3) An angle or hand grinder is used for cutting metal, plastic, roof sheeting, stone, bricks, concrete. You can also use it to <u>grind</u> these materials.

5) A (corded) **power drill** is used for drilling holes in metal, plastics, wood, brick, stone, concrete, glass, and <u>tiles</u>. Various types and lengths of drill bits are <u>available</u> depending on the material being drilled; HSS (High Speed Steel) bits for metal, flat bits for wood, and <u>masonry</u> bits for concrete. 4) **Jigsaws** can be used to cut wood, metal, plastic, and other materials. Different types of <u>blades</u> are available to <u>suit</u> the material being cut. Since the blades used in a jigsaw are slim and narrow, this allows curved profiles such as circles to be cut in sheet material.

6) This tool can be used for drilling holes in metal, plastics, wood, stones and also used as an electric screwdriver for driving screws. A **cordless drill**, like any other <u>cordless</u> power tool, has the convenience of freedom from a power cord. A cordless drill can also be used in awkward places, up <u>ladders</u> and on roofs without the inconvenience of the power flex catching in everything.

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## Vocabulary:

English	Hint, Acronyms,	German
	Antonyms	
		Werkstatt
		Maschinen (allgemein)
		etw. herstellen
		(Hand-)Werkzeug
		Elektrowerkzeug
		Werkzeugmaschinen
		Werkbank
		Schubladen
		Werkplatte
		Abschließbare Fächer
		Regale
		Sortierkästchen
		Abisolierzange
	1	Werkzeugausgabe (Lager)
	do-it-yourself	Baumarkt
	- ,	Werkzeugkasten
		Messung
		Zweck
		etw. drehen
		etw. scheiden
		etw. festziehen
		etw. schlagen
		etw. glatt Machen
		etw. löten
		etw. messen
		etw. schleifen
		schnell
		Dicke
		Bauholz
<u></u>		starr
	disadvantage	Vorteil
		Klinge, Schneide, Kante
		es passt
		Fliese
		verfügbar
	like: stone, marble, concrete	Mauerwerk
		Leiter
		kabellos

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