Subject

Class:: 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. <u>Hand tools</u>: multi-purpose, simple devices, handy
- 2. Power tool: mobile tools, powered by electrical energy
- 3. Machine tools: 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.



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Task 2. Read the dialogue between the two apprentices:

Task 2. Read the didiogue between the two apprentices:				
Stan	Oliver			
Well, this my workbench. In these drawers here there				
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,				
please?				
	Sure! Here you are. And here's the solder and a			
ThanksOkay, right. So now I'm soldering the LED	screwdriver.			
Task 3. <i>Answer these questions:</i> 1) Where are Stan's tools?				
2) What does Stan do, if he needs special tools?				
3) What are Laurel and Hardy making today?				
5) What are Laurer and Trarty making today:				

4) What tools are they using?5) What part is Stan soldering?

LORENZ-KAIM-SCHULE BERUFLICHES SCHULZENTRUM KRONACH

WORKSHOP & TOOLS

ENGLISH

Subject

Many Things To Use

Your Name: Date:

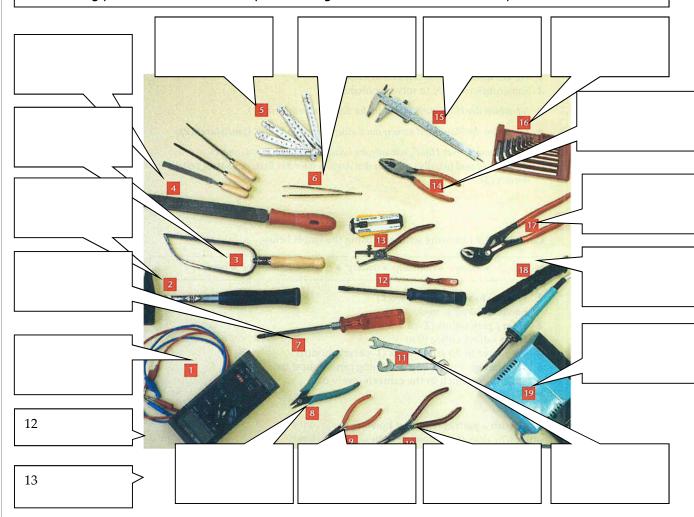
Hand Tools

Class::

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 calliper, spanner, side-cutting pliers, hacksaw, Allen keys, soldering iron, hammer, combination pliers



	Main Purpose	Tools
1	General Work	slotted and Philipps screwdriver, hammer, files, tweezers, combination pliers,
2	Electronics	wire stripper, long- and round nose pliers, side cutting pliers, desoldering pump, soldering iron
3	Metal Work	Allen keys, universal pliers, spanners, hacksaw
4	Measurements	folding rule, multimeter, Vernier calliper

Many Things To Use

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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	is/are used for	bend	PCBs
A multimeter		cut	nuts and bolts
A hacksaw		tighten	voltage
Pliers		turn	wires
Spanners		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.

1) 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 grind 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.

LORENZ-KAIM-SCHULE BERUFLICHES SCHULZENTRUM KRONACH

WORKSHOP & TOOLS

Many Things To Use

ENGLISH

Subject

Class:: Your Name:

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Vocabulary:

English	Hint, Acronyms,	German	
	Antonyms		
workshop		Werkstatt	
machinery		Maschinen (allgemein)	
to manufacture		etw. herstellen	
hand tools		(Hand-)Werkzeug	
power tools		Elektrowerkzeug	
machine tools		Werkzeugmaschinen	
work desk		Werkbank	
drawers		Schubladen	
desktop		Werkplatte	
lockers		Abschließbare Fächer	
shelves		Regale	
utility box		Sortierkästchen	
wire stripper		Abisolierzange	
tool shop		Werkzeugausgabe (Lager)	
DIY shop/magazine	do-it-yourself	Baumarkt	
tool box		Werkzeugkasten	
measurement		Messung	
purpose		Zweck	
to turn		etw. drehen	
to cut		etw. scheiden	
to tighten		etw. festziehen	
to hit		etw. schlagen	
to smooth		etw. glatt Machen	
to solder		etw. löten	
to measure		etw. messen	
to grind		etw. schleifen	
rapid		schnell	
thickness		Dicke	
timber		Bauholz	
rigid		starr	
advantage	disadvantage	Vorteil	
blade	3	Klinge, Schneide, Kante	
it suits		es passt	
tiles		Fliese	
available		verfügbar	
masonry	like: stone, marble, concrete	Mauerwerk	
ladder	1, 32, 32, 32, 32, 32, 32, 32, 32, 32, 32	Leiter	
cordless		kabellos	
		+	

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