

# Engineering Workshop wordlist

## Notes – Poznámky

[C] countable	počítatelné podst. jméno
[U] uncountable	nepočítatelné podst. jm.
[pl] plural	množné číslo
[sg] singular	jednotné číslo
<i>adj</i> adjective	přídavné jméno
<i>adv</i> adverb	příslowce
<i>noun</i>	podstatné jméno
<i>phrasal verb</i>	frázové sloveso
<i>prep</i> preposition	předložka
<i>verb</i>	sloveso
<i>op.</i> opposite	slovo opačného významu
informal	neformální

## A

**absolute zero** *noun* [U] the lowest temperature possible (-273.15°C) absolutní nula

**accurate** *adj* exact and correct přesný

**across** *adv, prep* from one side of sth to the other napříč, přes

**adjustable** *adj* that can be moved into different shapes or positions nastavitelný, posuvný

**advantage** *noun* 1 [C] something that may help you to do better than other people výhoda 2 [C,U] something that helps you or that will bring you a good result prospěch

**aerial** *noun* [C] a long metal stick that receives radio or television signals anténa

**aeronautical** *adj* connected with aircraft letecký

**aeroplane** *noun* [C] a vehicle with wings and engines that can fly letadlo

**alloy** *noun* [C, U] a metal formed by mixing two metals together, or by mixing metal with another substance slitina

**aluminium** *noun* [U] a light silver-coloured metal hliník

**amp** *noun* [C] (abbr A) a unit for measuring electrical current ampér

**analysis** *noun* [C,U] careful examination analýza, rozbor

**antenna** *noun* (US) = aerial anténa

**apex** *noun* [usually sing] the top or highest part of sth vrchol

**applicant** *noun* [C] a person who makes a formal request for sth, (**applies for sth**), especially a job, a place at a college, university, etc. žadatel/ka, uchazeč/ka ► **application** *noun* [C,U] žádost, přihláška ► **apply** *verb* žádat, ucházet se

**appointment** *noun* [C,U] an arrangement to see sb at a particular time schůzka

**apprentice** *noun* [C] a person who works for low pay in order to learn the skills needed in a particular job učeň/učnice

**architect** *noun* [C] a person who designs buildings architekt/ka

**architecture** *noun* [U] 1 the study of designing and making buildings architektura 2 the style or design of buildings stavební sloh

**area** *noun* [C,U] the size of a surface rozloha, plocha

**around** *adv, prep* on all sides; forming a circle dokola, kolem

**asphalt** *noun* [U] a thick black substance that is used for making the surface of roads asfalt

**assembly line** *noun* [C] a line of people and machines in a factory that fit the parts of sth together in a fixed order motázní linka/pás

**automatic** *adj* (used about a machine) that can work by itself without direct human control automatický, samočinný ► **automatically** *adv* automaticky, samočinně

**automobile** *adj* connected with cars and the manufacture of cars automobilový

## B

**bandwidth** *noun* [C,U] a measurement of the amount of information that a particular computer network or Internet connection can send in a particular time šířka pásma

**bar chart** *noun* [C] a diagram that uses narrow bands of different heights to show different amounts sloupcový diagram

**bascule bridge** *noun* [C] a type of bridge with a section that can be lifted up zvedací, sklápěcí, sklopný most

**base sth on sth** *phrasal verb* to form or develop sth from a particular starting point or source čerpat/vycházet z čeho

**battery** *noun* [C] a device which produces electricity baterie

**benefit** *noun* [C,U] an advantage or useful effect that sth has prospěch

**beware** *verb* **beware (of sb/sth)** (used for giving a warning) (be) careful dávat si pozor na

**Biro™** *noun* [C] a type of pen kuličkové pero

**boiling point** *noun* [C] the temperature at which liquid starts to boil bod varu

**bore** *verb* to make a long deep hole in sth with a tool vrtat, provrtat

**boring** *adj* not at all interesting; dull nudný

**bottom** *noun* [C, usually sing] the lowest part of sth dno

**brass** *noun* [U] a hard yellow metal that is a mixture of copper and zinc mosaz

**break** *verb* to separate into pieces rozbít, rozlomit, zlomit

**bridge** *noun* [C] a structure that carries a road or railway across a river, valley, road or railway most

**build** *verb* to make sth by putting pieces, materials, etc. together (vy)stavět

## C

**cable** *noun* [C,U] a set of wires covered with plastic, etc. for carrying electricity or signals kabel

**cabing** *noun* [U] all the cables that are required for a particular piece of equipment or a particular system zasilování, kabeláž

**calculation** *noun* [C,U] finding an answer using mathematics výpočet, kalkulace

**CAM** *abbr* computer-assisted manufacturing; the use of computers to control industrial processes výroba řízená počítači, výroba pomocí počítače

**canal** *noun* [C] an artificial waterway made through land so that boats or ships can travel along it kanál

**capacity** *noun* [sing, U] the amount that a container or space can hold nosnost

**cardboard** *noun* [U] very thick paper that is used for making boxes, etc. lepenka, kartón

**casing** *noun* [C, U] a covering that protects sth obal, kryt, plášť, opouzdrnění, bednění

**Celsius** *adj* (abbr C) of or using a scale of temperature in which water freezes at 0° and boils at 100° Celsiův

**cement** *noun* [U] a grey powder that becomes hard after it is mixed with water and left to dry cement

**census** *noun* [C] an official count of the population sčítání obyvatelstva

**centimetre** *noun* [C] (abbr cm) one hundredth of a metre centimetr

**centre** *noun* [C, usually sing] the middle point or part of sth střed, střední část

**certificate** *noun* [C] an official piece of paper that says that sth is true or correct osvědčení, potvrzení, vysvědčení

**chemical engineering** *noun* [U] the study of the design and use of machines in industrial chemical processes chemická technologie ► **chemical engineer** *noun* [C] inženýr chemické technologie

**chemist** *noun* [C] a specialist in chemistry chemik

**chemistry** *noun* [U] the scientific study of the structure of substances and what happens to them in different conditions or when mixed with each other chemie

**civil engineering** *noun* [U] the design, building and repair of roads, bridges, canals, etc.; the study of this as a subject stavební inženýrství

**classic** *adj* important and having a value that will last klasický, tradiční, důležitý

**clean** *adj* 1 not dirty čistý 2 not showing or having any record of doing sth that is against the law: *a clean driving licence* nemající záznam o přestupku, s čistým rejstříkem: řidičský průkaz bez záznamu

**clear** *adj* easy to see through (**opposite:** **opaque**) čirý, průzračný, průhledný

**clockwork** *noun* [U] a type of machinery that you operate by turning a key which winds up a spring and produces energy hodinový stroj

**CNC** *abbr* computer numerical control; the use of digital computer techniques to control a manufacturing process, especially the machines and tools involved in this process zařízení ovládané počítačem

**collapse** *verb* to fall down or break into pieces suddenly kolaps, náhlý rozpad

**column** *noun* [C] a tall solid vertical post that supports or decorates a building sloup

**combine** *verb* to join or mix kombinovat, spojovat

**communications** *noun* [U, also pl] methods of sending information, especially telephones, radio, computers, etc. or roads and railways komunikace, komunikační technologie

**component** *noun* [C] one of several parts of which sth is made komponent, díl, dílec, složka, součástka

**compound** *noun* [C] something that consists of substances combined together směs, sloučenina

**compress** *verb* to make sth fill less space than usual stlačit

**compressed-air** *adj* using air under pressure as energy to drive machines and tools pomocí stlačeného vzduchu

**computer** *noun* [C] an electronic machine that can store, find and arrange information, calculate amounts and control other machines počítač

**connect** *verb* to join spojit, spojovat

**consistent** *adj* always having the same opinions, standard, behaviour, etc.; not changing stálý, konsistentní

**construction** *noun* [U] the act or method of making sth or building sth konstrukce, stavba, objekt

**contact** *noun* [U] (**contact (with sth)**) the state of touching sth styk (s)

**continuous assessment** *noun* [U] a system of giving a student a final mark based on work done during a course of study rather than on one exam průběžné (o)hodnocení

**contract** *verb* to become or to make sth smaller or shorter smrštit, zmenšit, zkrátit (se)

**convert** *verb* to change sth from one form, system or use to another přeměnit, přejít na, změnit v

**cool** *adj* (*slang*) very good or fashionable super, skvělý, moderní, vynikající

**copper** *noun* [U] a common reddish-brown metal měď

**corner** *noun* [C] a place where two lines, edges, surfaces or roads meet roh

**corrosive** *adj* tending to destroy sth slowly by chemical action korozní, ničivý, leptavý, žravý

**course** *noun* [C] a complete series of lessons or studies kurz

**covering letter** *noun* [C] a letter containing extra information průvodní dopis

**crack** *verb* to break or to make sth break so that a line appears on the surface, without breaking into pieces prasknout

**craftsman** *noun* [C] a person who makes things skilfully, especially with his/her hands řemeslník

**cubic** *adj* (*abbr* cu) used to show a measurement of volume (= height 5 length 5 width) krychlový, kubický, objemový

**cure** *verb* to make sb healthy again after an illness (vy)léčit

**curie** *noun* [C] (*abbr* Ci) a unit for measuring radioactivity curie

**curriculum vitae** *noun* [C] (*abbr* CV) a written record of your education and employment životopis

**cycle** *noun* [C] the fact of a series of events being repeated many times, always in the same order cyklus, koloběh

## D

**dam** *verb* to build a wall across a river to hold back the water přehradit

**decimal** *noun* [C] a number less than one desetinné (číslo)

**decimal point** *noun* [C] a dot or point used to separate a whole number from the tenths, hundredths, etc. of a decimal, for example in **0.61** desetinná čárka (tečka)

**defensive** *adj* that protects sb/sth from attack obranný

**define** *verb* to explain the exact nature or meaning of sth clearly definovat, stanovit, určit

**deflect** *verb* to change direction after hitting sb/sth; to make sth change direction in this way odklonit, odchýlit, usměrnit

**degree** *noun* [C] a measurement of angles stupeň

**deliver** *verb* to take sth to the place requested doručit

**description** *noun* [C] a picture of sb/sth in words popis

**design** *verb* 1 to plan and make a drawing of how sth will be made nakreslit, narýsovat 2 to invent, plan and develop sth for a particular purpose konstruovat, navrhnout ► **design** *noun* [C] návrh, náčrtek, design

**designer** *noun* [C] a person whose job is to make drawings or plans showing how sth will be made návrhář, designer, konstruktér, umělec

**desktop** *noun* [C] a computer screen on which you can see symbols (**icons**) showing the programs, information, etc. that are available plocha na monitoru (počítače)

**detail** *noun* [C, U] one fact or piece of information detail

**develop** *verb* 1 to grow slowly, increase or change into sth else; to make sth do this rozvíjet, stavět, budovat 2 to think of or produce a new idea, product, etc. and make it successful vyvíjet 3 to begin to have a problem or disease; to start to affect sb/sth vyvíjet, rozvíjet ► **development** *noun* [U,C] vývoj, rozvinutí

**developer** *noun* [C] a person or company that designs and creates new products vývojář/ka, projektant/ka

**device** *noun* [C] a tool or piece of equipment zařízení, nástroj

**diagonal** *adj* (used about a straight line) joining two opposites sides of sth at an angle that is not 90° or vertical or horizontal úhlopříčný, diagonální

**diagram** *noun* [C] a simple picture that is used to explain how sth works or what sth looks like diagram, schéma, náčrtek

**diameter** *noun* [C] a straight line that goes from one side to the other of a circle, passing through the centre průměr

**diamond** *noun* [C, U] a hard, bright, precious stone diamant

**difficult** *adj* not easy to do or understand obtížný

**dimension** *noun* [C, U] a measurement in space; for example, the length, width or height of sth rozměr, dimenze, kóta ► **dimensional** (used to form compound adjectives) having the number of dimensions mentioned rozměrový, mající rozměr

**diploma** *noun* [C] (**a diploma (in sth)**) a certificate for completing a course of study diplom

**disadvantage** *noun* [C] something that is not good or that causes problems nevýhoda

**disaster** *noun* [C] an event that causes a lot of harm or damage katastrofa

**disconnect** *verb* 1 to stop a supply of electricity, etc. going to a piece of equipment or a building odpojit, vypnout 2 to separate sth from sth else vysunout, oddělit

**disposal** *noun* [U] the act of getting rid of sth likvidace, odstranění

**distance** *noun* [C,U] the space between two places or things vzdálenost

**divide** *verb* **divide (sth) (up) (into sth)** to separate (sth) into different parts (roz)dělit (něco) (na něco)

**drawing board** *noun* [C] a board used for holding a piece of paper while a drawing or plan is being made *rysovací prkno*

**driving licence** *noun* [C] a certificate that proves you have taken a test and are able to drive a car, etc. *řidičský průkaz/oprávnění*

**duct** *noun* [C] a tube for carrying liquid, gas, electric or telephone wires *vedení, roura, kanál*

## E

**ear defenders** *noun* [pl] pieces of soft material that you put over your ears to keep out noise *sluchátka, ušní chrániče*

**earphones** *noun* [pl] a piece of equipment that fits over or in the ears and is used for listening to music, the radio, etc. *sluchátka*

**easy** *adj* not difficult *snadný* ► **easily** *adv* *snadno*

**efficiently** *adv* well and thoroughly with no waste of time, money, or energy *efektivně*

**electrical** *adj* of or about electricity *elektrický, elektrotechnický*

**electrical engineering** *noun* [U] the design and building of machines and systems that use or produce electricity; the study of this subject *elektroinženýrství, elektrotechnika*

**electrical resistance** *noun* [C,U] the fact of a substance not allowing electricity to flow through it; a measurement of this *elektrický odpor*

**electricity** *noun* [U] a type of energy that we use to make heat, light, and power to work machines, etc. *elektřina*

**electrodynamics** *noun* [U] the scientific study of the forces involved in the movement of electricity *elektrodynamika*

**electromagnetic** *adj* (in physics) having both electrical characteristics and the ability to attract metal objects *elektromagnetický*

**element** *noun* [C] one of the simple chemical substances, eg iron *prvek*

**energy** *noun* [U] the power used for driving machines, etc. *energie*

**engineer** *noun* [C] a person whose job is to design, build, or repair engines, machines, etc. *inženýr, technik, strojník*

**engineering** *noun* 1 the activity of applying scientific knowledge to the design, building and control of machines, roads, bridges, electrical equipment, etc. *inženýring* 2 [U] the study of this subject *inženýrství*

**enquiry** *noun* [C] 1 a question *dotaz, otázka* 2 an official process to find out the cause of sth *vyšetřování, pátrání*

**environment** *noun* [C, U] the conditions that affect the behaviour and development of sb/sth; the physical conditions that sb/sth exists in *životní prostředí*

**environmentally-friendly** *adj* (used about products) not harming the natural world *ekologicky přijatelný, šetrný k životnímu prostředí*

**equipment** *noun* [U] the things that are needed to do a particular activity *vybavení*

**ergonomically** *adj* in a way that is designed to help people's working conditions and to help them work more efficiently *ergonomicky*

**estimate** *verb* to calculate the size, cost, etc. of sth approximately *odhadnout, určit odhadem*

**evaluate** *verb* to study the facts and then form an opinion about sth *zhodnotit, ocenit, odhadnout*

**everyday** *adj* used or happening every day or regularly; normal *každodenní, všední*

**expand** *verb* to become or to make sth bigger *zvětšit, rozšířit*

**experience** *noun* [U] the things that you have done in your life *zážitek; the knowledge or skill that you get from seeing or doing sth* *zkušenost, praxe*

**expertise** *noun* [U] a high level of special knowledge or skill *odborná znalost, odbornost*

**explosive** *adj* easily able or likely to explode *explozivní, třaskavý*

## F

**factory** *noun* [C] a building or group of buildings where goods are made by machine; *továrna, výrobní závod*

**fantasy** *noun* [C,U] a product of your imagination *fantazie*

**fashionable** *adj* popular *moderní, oblíbený*

**fitting** *noun* [U] the act of putting or fixing sth somewhere *instalace, montáž, přizpůsobení*

**fixed** *adj* staying the same; not able to be moved or changed *přípevněný na stálo, stálý*

**flammable** *adj* able or likely to burn easily *hořlavý, zápalný, vznětlivý*

**flexible** *adj* able to bend or move easily without breaking *pružný, ohebný*

**foil** *noun* [U] metal that has been made into very thin sheets, used for putting around food *folie, staniol*

**fold** *verb* to bend one part of sth over another part in order to make it smaller, tidier, etc. *přehýbat, překládat* ► **fold** *noun* [C] *ohyb*

**force** *noun* 1 [U] physical strength or power *síla* 2 [C,U] a power that can cause change or movement *síla, moc*

**formal** *adj* serious or official *formální, oficiální*

**foundation course** *noun* [C] a general course at a college that prepares students for longer or more difficult courses *základní kurz*

**frequency** *noun* [C,U] the rate at which a sound wave or radio wave moves up and down (**vibrates**) *frekvence, kmitočet*

**fuel consumption** *noun* [U] the act of using heat or power (**fuel**); the amount used *spotřeba paliva*

## G

**gadget** *noun* [C] a small device, tool or machine that has a particular but usually unimportant purpose *přístroj, strojní součástka, mechanismus*

**generation** *noun* 1 [C] all the people in a family, group or country who were born at about the same time *generace* 2 [U] the production of sth, especially heat, power, etc. *výroba* 3 [C, usually singl] a stage in the development of a product, usually a technical one *generace, tvorba, tvoření, vývin*

**generator** *noun* [C] a machine that produces electricity *generátor, dynamo*

**girder** *noun* [C] a long heavy piece of iron or steel that is used in the building of bridges, large buildings, etc. *nosník*

**goggles** *noun* [pl] special glasses that you wear to protect your eyes from water, wind, dust, etc. *ochranné brýle*

**gram** *noun* [C] (abbr g) a measure of weight. There are 1,000 grams in a kilogram *gram*

**grind** *verb* to make sth sharp or smooth by rubbing it on a rough hard surface *brousit, ostřit*

**guillotine** *noun* [C] a machine used for cutting paper *řezačka na papír*

## H

**half** *noun* [C] (symbol 1/2) one of two equal parts of sth *polovina*

**hand-drawn** *adj* drawn or done by a person and not by machine *nakreslený/narýsovaný ručně*

**handle** *verb* to touch, hold or move sth with your hands *uchopit, ovládat, zacházet s něčím (ručně)*

**handmade** *adj* made by a person using his/her hands *ručně vyráběný, ručně dělaný*

**hard** *adj* not soft to touch; not easy to break or bend (**opposite: soft**) *tvrďý, pevný*

**hard hat** *noun* [C] a protective hat *ochranná přilba*

**hear** *verb* to receive sounds with your ears *slyšet* ► **hearing** *noun* [U] *sluch*

**heavy** *adj* weighing a lot; difficult to lift or move (**opposite: light**) *těžký*

**height** *noun* [C,U] the measurement from the bottom to the top of a person or thing *výška*

**hertz** *noun* [C] (abbr Hz) a unit for measuring the frequency of sound waves *hertz*

**highly-skilled** *adj* (used about work, a job, etc.) needing a lot of skills or skill; done by people who have been trained to a high degree vysoce/dobře kvalifikovaný

**Hoover**<sup>TM</sup> *noun* [C] a machine that sucks up the dirt vysavač

**horizontal** *adj* going from side to side, flat or level horizontální, vodorovný

**human error** *noun* [C, U] a mistake made by a person lidská chyba

## I

**identical** *adj* exactly the same as; similar in every detail identický, jednotný, shodný

**ignite** *verb* to start burning or to make sth start burning zapálit, vznítit

**illegal** *adj* not allowed by the law ilegální, nezákonný

**image** *noun* [C] 1 a copy or picture of sb/sth obraz, snímek 2 the general impression that a person, an organization, etc. gives to the public image, dojem

**imagination** *noun* 1 [U, C] the ability to create mental pictures or new ideas imaginace, představivost, obrazotvornost 2 [C] the part of the mind that uses this ability imaginace, představivost, fantazie

**implant** *noun* [C] something put into the body in a medical operation implantovat

**increase** *verb* to become or to make sth larger in number or amount zvětšit, rozšířit

**industrial** *adj* connected with industry průmyslový, industriální

**industry** *noun* [U] the production of goods in factories průmysl

**informal** *adj* relaxed and friendly or suitable for a relaxed occasion neformální

**injure** *verb* to hurt or harm sb physically zranit

**interesting** *adj* enjoyable and entertaining; holding your attention zajímavý, poutavý

**interference** *noun* [U] extra noise that prevents you from receiving radio, TV, or phone signals clearly rušení

**interview** *noun* [C] a meeting to find out if sb is suitable for a job, course of study, etc. rozhovor, pohovor

**invention** *noun* [C] a thing that has been made or designed by sb for the first time vynález, objev ► **inventor** *noun* [C] vynálezce, tvůrce

**iron** *noun* [U] (symbol Fe) a hard strong metal that is used for making steel and is found in small quantities in food and blood železo

## J

**Jacuzzi**<sup>TM</sup> *noun* [C] a special bath in which powerful movements of air make bubbles in the water Jacuzzi, perličková koupel

**jet** *noun* [C] a fast modern plane tryskové letadlo, tryskáč

**joule** *noun* [C] (abbr J) a unit of energy or work joule, džaul

## K

**kelvin** *noun* [C, U] (abbr K) a unit for measuring temperature kelvin

**kettle** *noun* [C] a container with a lid, used for boiling water varná konvice

**key skill** *noun* [C] a particular ability or type of ability klíčová schopnost/dovednost

**keyboard** *noun* [C] the set of keys on a computer, etc. klávesnice

**kill** *verb* to make sb/sth die zabít

**kilogram** *noun* [C] (abbr kg) a measure of weight kilogram

**kilometre** *noun* [C] (abbr k, km) a measure of length or distance kilometr

## L

**labourer** *noun* [C] a person whose job involves hard physical work outdoors nádeník, dělník, pracovník

**lathe** *noun* [C] a machine that shapes pieces of wood or metal by holding and turning them against a fixed cutting tool soustruh

**leather** *noun* [U] the skin of animals which has been specially treated kůže

**length** *noun* [C] the size of sth from one end to the other délka

**lens** *noun* [C] a curved piece of glass that makes things look bigger, clear, etc. when you look through it čočka

**light(1)** *adj* not weighing a lot; easy to lift or move (**opposite: heavy**) lehký

**light(2)** *noun* [U, C] the energy from the sun, a lamp, etc. that allows you to see things světlo

**lighting** *noun* [U] the quality or type of lights used in a room, etc. osvětlení

**liquid** *noun* [C, U] a substance, for example water, that is not solid or a gas and that can flow or be poured tekutina

**listen** *verb* to pay attention to sb/sth in order to hear him/her/it poslouchat

**litre** *noun* [C] (abbr l) a measure of liquid litr

**local** *adj* of a particular place (near you) místní

**look** *verb* to turn your eyes in a particular direction (in order to pay attention to sb/sth) podívat se

**loosen** *verb* to become or make sth less tight povolit, uvolnit

## M

**mains** *noun* [pl] the place where the supply of gas, water or electricity to a building starts; the system of providing these services to a building hlavní přívod

**maintenance** *noun* [U] keeping sth in good condition údržba

**manufacture** *noun* [U] the fact of making sth in large quantities using machines výroba ► **manufacturing** *noun* [U] výroba ► **manufacturer** *noun* [C] výrobce, tovární závod

**material** *noun* [C, U] a substance that can be used for making or doing sth materiál, surovina, hmota

**mathematician** *noun* [C] an expert in mathematics matematik

**mathematics** *noun* [U] the science or study of numbers, quantities, or shapes matematika

**measurement** *noun* 1 [C] a size, an amount, etc. that is found by measuring sth míra, rozměr 2 [U] the act or process of measuring sth měření

**mechanical engineering** *noun* [U] the study of how machines are designed, built, and repaired strojírenství, strojní inženýrství

**mechanism** *noun* [C] a set of moving parts in a machine that does a certain task mechanismus, ústrojí, zařízení

**medical** *adj* connected with medicine and the treatment of illness lékařský, zdravotnický

**memory** *noun* [C, U] 1 a person's ability to remember things paměť 2 the part of a computer where information is stored; the amount of space in a computer for storing information paměť

**mend** *verb* to repair sth that is damaged or broken stavit, opravit

**metal** *noun* [C, U] a type of solid substance that is usually hard and shiny and that heat and electricity can travel through kov

**methodical** *adj* having or using a well-organized and careful way of doing sth metodický, soustavný

**metre** *noun* [C] (abbr m) a measure of length; 100 centimetres metr

**micrometre** *noun* [C] one millionth of a metre mikrometr

**mild steel** *noun* [U] a strong hard material, made from a mixture of iron and carbon měkká ocel

**millilitre** *noun* [C] (abbr ml) one thousandth of a litre mililitr

**million** *noun* [C] 1,000,000 milión

**mining** *noun* [U] the process of getting coal and other minerals from under the ground; the industry involved in this těžba

**model** *noun* [C] a copy of sth that is usually smaller than the real thing model

**modern** *adj* with all the newest methods, equipment, designs, etc. moderní  
**monitor** *noun* [C] a screen that shows information from a computer obrazovka, monitor  
**mouse** *noun* [C] a piece of equipment, connected to a computer, for moving around the screen and entering commands without touching the keys myš  
**movable** *adj* that can be moved (opposite: fixed) pohyblivý

## N

**naturally** *adv* in a way that is relaxed and normal přirozeně  
**newspaper article** *noun* [C] a piece of writing in a newspaper novinový článek  
**newton** *noun* [C] (abbr N) a unit for measuring force newton  
**nickel** *noun* [U] (symbol Ni) a hard silver-white metal nikl  
**nuclear** *adj* using, producing or resulting from the energy that is produced when the central part (**nucleus**) of an atom is split jaderný, nukleární  
**nylon** *noun* [U] a very strong man-made material nylon

## O

**ohm** *noun* [C] (symbol  $\Omega$ ) a unit for measuring electrical resistance ohm  
**opaque** *adj* that you cannot see through (opposite: clear) matný, neprůhledný  
**opener** *noun* [C] a tool that opens sth or takes the lid, etc. off sth otvírák  
**operator** *noun* [C] a person whose job is to work a particular machine or piece of equipment operátor, obsluha  
**optical fibre** *noun* [C,U] a thin glass thread through which light can be sent (transmitted) optické vlákno  
**organized** *adj* arranged or planned in the way mentioned zorganizovaný  
**original** *adj* made or created first, before any copies or changes were made originální

## P

**parachute** *noun* [C] a piece of equipment that is tied to a person and that opens and lets him/her fall to the ground slowly when he/she jumps from a plane padák  
**particular** *adj* used to emphasize that you are talking about one person, thing, time, etc. and not about others jednotlivý, zvláštní, speciální  
**pascal** *noun* [C] (symbol Pa) a unit of pressure equal to one newton per square metre pascal  
**pass** (an exam) *verb* to achieve the necessary standard in an exam, a test, etc. udělat/úspěšně složit zkoušku

**patience** *noun* [U] the quality of being able to stay calm and not get angry, especially when you have to wait a long time trpělivost  
**patient** *noun* [C] a person who is receiving medical treatment pacient  
**peaceful** *adj* calm and quiet mírumilovný  
**per** *prep* for each ze, za, pomocí  
**per cent** *noun* [C] (symbol %) one part in every hundred procento  
**perfect** *adj* completely good; without faults or weaknesses perfektní  
**personality** *noun* [C,U] the different qualities of a person's character that make him/her different from other people osobnost  
**petrochemical** *noun* [C] any chemical substance obtained from petroleum oil or natural gas chemikálie z ropy, petrochemikálie  
**petroleum** *noun* [U] mineral oil that is found under the ground or the sea and is used to produce petrol ropa  
**physicist** *noun* [C] an expert in physics fyzik  
**physics** *noun* [U] the scientific study of natural forces fyzika  
**pie chart** *noun* [C] a diagram consisting of a circle divided into parts to show the size of particular parts in relation to the whole výšečový graf  
**pier** *noun* [C] a large structure that is built in the sea or a river to support a bridge where it crosses the water pilíř  
**pilot** *noun* [C] a person who flies an aircraft pilot  
**pioneer** *noun* [C] a person who is one of the first to develop an area of human knowledge, culture, etc. průkopník  
**plant** *noun* [C] a factory or place where power is produced or where an industrial process takes place elektrárna, průmyslový podnik  
**plastic** *noun* [C, U] a light, strong material that is made with chemicals and is used for making many different sorts of objects umělá hmota, plast  
► **plastic** *adj* umělohmotný, plastický  
**plug** *noun* [C] sth which connects a piece of electrical equipment to the electricity supply zástrčka, konektor  
**plug sth in** *phrasal verb* to connect a piece of electrical equipment to the electricity supply or to another piece of equipment zapojit, strčit do zásuvky  
**point** *noun* [C] the thin sharp end of sth hrot  
**polymer** *noun* [C] a compound consisting of large groups of atoms (**molecules**) made from combinations of small simple molecules polymer  
**population** *noun* [C,U] the number of people who live in a particular area, city or country populace, obyvatelstvo  
**power(1)** *noun* [U] energy that can be collected and used for operating machines, making electricity, etc. zdroj, energie

**power(2)** *verb* to supply energy to sth to make it work napájet, hnát  
**practical** *adj* 1 concerned with actually doing sth rather than with ideas or thought praktický, prakticky zaměřený  
2 very suitable for a particular purpose; useful užitečný  
**precision** *noun* [U] the quality of being clear or exact přesnost  
**prepare** *verb* to get ready or to make sb/sth ready připravit  
**prevent** *verb* (**prevent sb/sth (from) (doing sth)**) to stop sth happening or to stop sb from doing sth zabránit (někomu/něčemu), (aby něco dělal)  
**printer** *noun* [C] a machine that prints out information from a computer onto paper tiskárna  
**process** *noun* [C] a series of actions that you do for a particular purpose proces, postup  
**produce** *verb* 1 to make sth to be sold, especially in large quantities produkovat, vyrábět 2 to cause a particular effect or result způsobit, vyprodukovat ► **production** *noun* [C] produkce, výroba  
**project** *noun* [C] a piece of work that is planned and organized carefully projekt, návrh  
**property** *noun* [C, usually pl] a special quality or characteristic vlastnost  
**proportion** *noun* 1 [C] a part or share of a whole část, díl 2 [U] the relationship between the size or amount of two things proporce, poměr  
**prototype** *noun* [C] the first model or design of sth from which other forms will be developed prototyp, model  
**put sth together** *phrasal verb* to build or repair sth by joining its parts together sestavit, dát něco dohromady

## Q

**qualification** *noun* [C, usually pl] an exam that you have passed or a course of study that you have successfully completed kvalifikace  
**quarter** *noun* [C] (symbol 1/4) one of four equal parts of sth čtvrtina

## R

**radioactive** *adj* sending out powerful and very dangerous rays that are produced when atoms are broken up. These rays cannot be seen or felt but can cause serious illness or death. radioaktivní  
► **radioactivity** *noun* [U] radioaktivita  
**react** *verb* (used about a chemical substance) to change after coming into contact with another substance reagovat  
**realistically** *adv* in a sensible and understanding way realisticky  
**receiver** *noun* [C] a person who gets a letter, a message, etc. from sb příjemce

**recycle** *verb* 1 to put used objects and materials through a process so that they can be used again *recyklovat*  
2 to keep used objects and materials and use them again *znovu používat*

**referee** *noun* [C] a person who gives information about your character and ability, usually in a letter, for example when you are hoping to be chosen for a job *ručitel/ka, referent/ka, garant/ka*

**register** *verb* to show sth or be shown on a measuring instrument *zaznamenat (míru, váhu)*

**relaxed** *adj* not worried or tense *uvolněný*

**reliable** *adj* that you can trust *spolehlivý*

**repair** *verb* to put sth old or damaged back into good condition *opravit, spravit*

**repeater** *noun* [C] a device which automatically transmits or sends again an electronically transmitted message *relé, opakovač*

**repetitive strain injury** *noun* [U] (abbr **RSI**) pain and swelling, especially in the wrists and hands, caused by doing the same movement many times *únavové zranění*

**require** *verb* to need sth *požadovat, vyžadovat*

**resource** *noun* [C, usually pl] a supply of sth, a piece of equipment, etc. that is available for sb to use *zdroj*

**rigid** *adj* difficult to bend or shape; stiff *tuhý, rigidní*

**risk** *noun* [C,U] a possibility of sth dangerous or unpleasant happening; a situation that could be dangerous or have a bad result *risk, hazard*

**robot** *noun* [C] a machine that works automatically or is controlled by a computer *robot, automat*

**robotics** *noun* [U] the science of designing and operating robots *robotika*

**rust** *verb* to become covered with a reddish-brown substance which forms on the surface of iron, etc. and is caused by the action of air and water *rezavět, korodovat*

## S

**safe** *adj* not likely to cause danger, harm or risk *bezpečný* ► **safely** *adv* bezpečně  
► **safety** *noun* [U] bezpečí, zabezpečení

**sanitation** *noun* [U] the equipment and the systems that keep places clean, especially by removing human waste *sanitace, kanalizace*

**scale** *noun* [C] a series of numbers amounts, etc. that are used for measuring or fixing the level of sth *stupnice*

**scientific** *adj* connected with or involving science *vědecký, odborný, naučný*  
► **scientist** *noun* [C] vědec, odborník

**screw** *noun* [C] a thin pointed piece of metal used for fixing two things together. You turn a screw with a special tool (a **screwdriver** *šroubovák*), šroub

**seabed (the seabed)** *noun* [sing] the floor of the sea *mořské dno*

**secret** *adj* known about by only a few people; kept hidden from others *tajemství*

**secretary** *noun* [C] a person who works in an office. A secretary types letters, answers the telephone, keeps records, etc. *sekretář/ka, administrativní pracovník/pracovnice*

**see** *verb* to become conscious of sth using your eyes *uvidět, uvědomit si*

**sender** *noun* [C] a person who sends a letter, a package, etc. to sb *odesílatel/ka*

**sense(1)** *noun* [C] one of the five natural physical powers of sight, hearing, smell, taste and touch *smysl*

**sense(2)** *verb* to realize or become conscious of sth; to get a feeling about sth you cannot see, hear, etc. *vyčítit, vytušit*

**sensible** *adj* (used about people and their behaviour) able to make good judgements based on reason and experience; practical *rozumný; účelný*

**sensor** *noun* [C] a device that can react to light, heat, pressure, etc. *senzor, čidlo*

**setting** *noun* [C] one of the positions of the controls of a machine *nastavení*

**shape(1)** *verb* to make sth into a particular form *tvarovat, formovat, profilovat*

**shape(2)** *noun* [C, U] the form of the outer edges or surfaces of sth; an example of sth that has a particular form  *tvar, forma, profil*

**shape memory** *adj* (used about a substance or material) able to change and adapt according to its surroundings  *tvarová paměť*

**side** *noun* [C] one of the surfaces of sth except the top, bottom, front or back *strana*

**sight** *noun* [U] the ability to see *zrak, vidění*

**signal** *noun* [C] a series of radio waves, etc. that are sent out or received *signál*

**skill** *noun* 1 [U] the ability to do sth well, especially because of training, practice, etc. *dovednost* 2 [C] an ability that you need in order to do a job, an activity, etc. well *zručnost* ► **skilled** *adj* zručný; kvalifikovaný

**sloping** *adj* (used about a surface) not flat: built at an angle *nakloněný, šikmý*

**smart** *adj* 1 (used about a piece of clothing) formal *formální, elegantní*  
2 clever; intelligent *chytrý*  
3 fashionable *moderní*

**smell** *noun* [U] the ability to sense things with the nose *čich*

**socket** *noun* [C] 1 a place in a wall where a piece of electrical equipment can be connected to an electrical supply *zásuvka* 2 a hole in a piece of electrical equipment where another piece of electrical equipment can be connected *zásuvka; zdířka*

**soft** *adj* not hard or firm *měkký*

**software** *noun* [U] the programs and other operating information used by a computer *programové vybavení, software*

**solar energy** *noun* [U] power from the sun *solární/sluneční energie*

**solution** *noun* [C] a way of finding the answer to a problem or dealing with a difficult situation *řešení*

**solve** *verb* to find a way of dealing with a problem or difficult situation *(vy)řešit*

**span** *noun* [C] the length of sth from one end to the other *rozpětí, rozteč, vzdálenost*

**specialist** *noun* [C] an expert in a particular area *specialista/specialistka, expert/ka, odborník/odbornice*

**specialize** *verb (specialize (in sth))* 1 to become an expert in a particular area of work or study *specializovat se, zaměřit se odborně* 2 to give most of your attention to one subject, type of product, etc. *specializovat se, zaměřit se odborně (na co)*

**speed** *noun* [C,U] the rate at which sb/sth moves or travels *rychlost*

**splicing** *noun* [U] the act of joining the ends of two pieces of cable, etc. together *spojení, spletení, spletený spoj*

**square** *adj* (abbr **sq**) used after a number to give a measurement of an area *čtvereční, plošný*

**stage** *noun* [C] one part of the progress or development of sth *článek, fáze, stádium*

**state-of-the-art** *adj* using the most modern or advanced techniques and methods *za použití nejmodernějších metod vědy a techniky*

**statistics** *noun* [pl] numbers that have been collected in order to provide information about sth *statistika*

**Stetson™** *noun* [C] a type of hat typical in Texas, USA *kovbojský širák*

**stitch** *noun* [C] one of the small pieces of thread that a doctor uses to sew your skin together after an operation, etc. *steh*

**strain** *noun* 1 [C,U] pressure or worry *napětí, strádání* 2 [U] pressure that is put on sth when it is pulled or pushed by a physical force *tlak*

**strength** *noun* [U] the ability of an object to hold heavy weights or not to break or be damaged easily *pevnost*  
► **strengthen** *verb* to make sth stronger *zpevnit, posílit*

**strong** *adj* (used about a thing) not easily broken or damaged (**opposite: weak**) *silný*

**structural** *adj* connected with the way that a building, etc. has been built or the way that the parts of sth have been put together *stavební, konstrukční, skladebný*

**substandard** *adj* not as good as normal; not acceptable *podřadný, podprůměrný, nevyhovující*

**suction** *noun* [U] the action of removing air from a space or container so that two surfaces can stick together odsávání, vysátí vzduchu

**supply(1)** *noun* [C] a store or an amount of sth that is provided or available to be used zásoba

**supply(2)** *verb* to give or provide sth dodávat, zásobovat

**surgery** *noun* [U] medical treatment in which your body is cut open so that part of it can be removed or repaired chirurgie

**survey** *noun* [C] a study of the opinions, behaviour, etc. of a group of people průzkum, anketa

**suspension bridge** *noun* [C] a bridge that hangs from thick steel wires that are supported by towers at each end visutý most

**symbol** *noun* [C] a sign, object, etc. that represents sth symbol, znamení, označení

**symmetrical** *adj* having two halves that match each other exactly in size, shape, etc. symetrický, souměrný

**symptom** *noun* [C] a change in your body that is a sign of illness symptom, příznak

**system** *noun* [C] a set of ideas or rules for organizing sth; a particular way of doing sth systém, forma, řád, sestava

## T

**taste(1)** *noun* [U] the ability to recognize the flavour of a food or drink chuť

► **taste(2)** *verb* chutnat, ochutnávat

**technical** *adj* connected with the practical use of machines, methods, etc. in science or industry technický, odborný

**technician** *noun* [C] a person whose job is keeping a particular type of equipment or machinery in good condition technik/technička, odborník/odbornice, řemeslník

**technique** *noun* [C] a particular way of doing sth technika, zručnost, obratnost, postup

**technology** *noun* 1 [U,C] scientific knowledge, used in practical ways in industry technologie, výrobní postup 2 [C,U] the scientific knowledge and/or equipment that is needed for a particular industry, etc. technologie výroby

**teeth brace** *noun* [C, often pl] a metal frame that is fixed to a child's teeth in order to make them straight zubní rovnátka

**telecommunications** *noun* [pl] the technology of sending signals, images and messages over long distances by radio, telephone, television, etc. telekomunikace

**temperature** *noun* [C, U] how hot or cold sb/sth is teplota

**tension** *noun* [C,U] the condition of not being able to relax because you are worried or nervous tenze, napětí

**test** *verb* to use a machine, product, etc. to find out how well it works

(o)testovat ► **tester** *noun* [C]

zkoušečka (testovací zařízení)

**textile** *noun* [C, U] any cloth made in a factory textilie, tkanina

**theoretical** *adj* based on ideas and principles, not on practical experience teoretický

**thermometer** *noun* [C] an instrument for measuring temperature teploměr

**think** *verb* to use your mind to consider sth or to form connected ideas přemýšlet

**third** *noun* [C] (symbol 1/3) one of three equal parts of sth třetina

**thousand** *noun* [C] 1,000 tisíc

**thread** *noun* [C] a long thin piece of cotton, wool, etc. that you use for sewing, etc. nit

**tighten** *verb* to make sth tight or tighter utěsnit, utáhnout

**titanium** *noun* [U] (symbol Ti) a silver-white metal that is used in making various strong light materials titan

**tomb** *noun* [C] a large place, where the body of an important person is buried hrobka

**ton** *noun* [C] a measure of weight; 2,240 pounds tuna

**tool** *noun* [C] an instrument that you hold in your hand and use for making or repairing things, etc. nástroj

**top** *noun* [C] the highest part or point of sth vrchol, horní část

**touch** *noun* [U] the ability to feel things and know what they are like by putting your hands or fingers on them dotek

► **touch** *verb* dotýkat se

**tough** *adj* not easy to break or damage tuhý, odolný

**tour** *noun* [C] a short visit around a building, city, etc. prohlídka

**traditional** *adj* following the beliefs, customs or way of life of a group of people that have not changed for a long time tradiční

**transmission** *noun* [U] sending out or passing sth from one person, place or thing to another přenos

## U

**under** *prep, adv* in or to a position that is below sth pod

**unique** *adj* not like anything else; being the only one of its type unikátní

**unplug** *verb* to remove a piece of electrical equipment from the electricity supply vytáhnout ze zásuvky

**unreliable** *adj* that cannot be trusted or depended on to work properly nespolehlivý

**upholsterer** *noun* [C] a person whose job is to cover furniture with soft material and fabric čalouník/čalounice

**useful** *adj* having some practical use; helpful užitečný

## V

**valve** *noun* [C] a device in a pipe or a tube which controls the flow of air, liquid or gas, letting it move in one direction only klapka, záklopka

**vehicle** *noun* [C] something that transports people or things vozidlo

**vertical** *adj* going straight up at an angle of 90° from the ground vertikální

**viewer** *noun* [C] a person who looks at or considers sth pozorovatel/ka, divák/divačka

**vinyl** *noun* [C,U] a strong plastic that can bend easily and is used for making wall, floor and furniture coverings vinyl (druh plastu)

**vision** *noun* [U] the ability to see; sight vize

**volt** *noun* [C] (abbr V) a unit for measuring the force of an electric current volt

## W

**waiting list** *noun* [C] a list of people who are waiting for sth, for example a service or medical treatment, that will be available in the future pořadník

**waterway** *noun* [C] a canal, river, etc. along which boats can travel vodní cesta

**watt** *noun* [C] (abbr W) a unit for

measuring electrical power watt

**weak** *adj* that cannot support a lot of weight; likely to break (opposite: strong) slabý, rozbitelný

**weight** *noun* [C,U] how heavy sb/sth is; the fact of being heavy váha

**welder** *noun* [C] a person whose job is joining pieces of metal together by heating their edges and pressing them together svářeč ► **welding** *noun* [U] sváření

**welding torch** *noun* [C] a tool with a very hot flame that is used to join pieces of metal together svářečka

**wind** *verb* (wind sth up) to make a clock or other mechanism work by turning a key, a handle, etc. several times natáhnout ► **wind-up** *adj* that can be

made to work by being wound up natáhnutý

**wire** *noun* [C] a piece of metal in the form of a thin thread that is used to carry electricity drát

**wiring** *noun* [U] the system of wires which supplies electricity to rooms in a building elektrický rozvod, instalace, vedení

**working environment** *noun* [C,U] the conditions that sb works in pracovní prostředí

## Z

**zero** *noun* [C] the number 0 nula