

VOCABULARY FOR ENGINEERING KEY PARTS 1 TO 6

PART 1

to account for / accurate, accuracy / to achieve / to actuate / to adjust / to advise, advice / aim / (to be) aimed at / to allow / to alter / amount - appliance / to apply (to) / to arrange , arrangement / attempt, to attempt / automation, to automate / available / average, to average / to avoid.

1 - Fill in with words from the list above

- Since 1900, the temperature of the earth has risen by 0.006°C every year, of course not regularly but on 1)average .
- He has won the Nobel Prize. What a great thing he has 2)achieved.!
- Cheaper prices 3)account for the invasion of clones of the IBM PC.
- 4)Adjust. sound with the controls "volume", "treble", and "bass".
- This packaging machine 5)is aimed at low-volume operations.
- He 6) advised me to try again. What a good idea it was!
- This machining center can manufacture an 7) amount of 100 parts an hour.
- iPhone 11 Pro Max are now 8) available on Apple.com.
- A pressure of xlb./in² is 9) applied to this piston
- By taking precautions we can 10) avoid the risk of accidents

2 - Find synonyms of :

- | | |
|------------------------------------|-------------------------------|
| 1) to actuate- to run..... | 7) amount- quantity..... |
| 3) appliance- system, device | 9) to alter- to modify..... |
| 2) to attempt- to try | 6) to allow- to permit..... |
| 4) to account for- to concern | 8) to arrange- a/to plan..... |
| 5) an attempt- a trial..... | |

3 -Functions

The following sentences express functions:

- * The function / duty of the spring is to keep the valve depressed
- * The spring. has / performs the function / duty of keeping the valve depressed
- * The spring serves to keep the valve depressed
- * The spring serves / acts as / is used as a means of keeping the valve depressed

4 - Are the underlined words nouns or verbs? (circle the right answer)

- 1)-The 78PC features standard a fast hard disk and and 17" screen N V
- 2)-Press-button operation and other new features make the meter easy to use N V

3)-And our highly trained engineers configure and engineer systems to the customers' needs **N V**

4)-The automatic Recognition System displays the parameters **N V**

5)-This software allows the user to have fine colour displays **N V**

5 -Fill in the table

verb	noun	adjective
1)produce	2)product(ion)	productive
3)risk	risk	4)risky
adjust	5)adjustment	6)adjusted
7)measure	measure(ment)	8)measured
9)protect	protection	10)protected (ive)

PART 2

breakdown - breakthrough - to bring about - built-in - to carry out - case, casing - check, to check - to claim -to clamp - to compensate (for) - to complete, completion - to be composed of - to comprise - to connect - to consist of - to consist in - constraint.

1 - Find a synonym of CARRY OUT (in part 1) : 1) achieve.....

2 - A few "false friends"

- 1)to complete = **terminer**
- 2) actual / actually = **réel/vraiment.**
- 3) to deliver = **livrer**
- 4) large = **.grand**
- 5) to comprise = **.comprendre**
- 6) to prevent (from) = **empêcher** (de)

Compléter = to make complete.
Actuel = now, nowadays, currently
Délivrer = to free
Large= wide
Y compris = included
Prévenir = to warn

3 - Fill in with words from the list above

- If the maintenance of a system is not correctly done, it can **1)bring about.....** problems and even **2)breakdowns**
- The machine has a **3)built-in** processor so that it can be programmed off-line(= without a computer).
- A PC **4) features** a CPU, a monitor, a disk, a mouse, etc.
- Quenching **5)consists ..in.....**heating a metal and cooling brutally.
- The plant will soon be **6) completed** and start production.
- The discovery of integrated circuits has been one of the major **7) breakthroughs** of the XXth century.

4 - Geometry

Match the nouns, the adjectives and their opposites

large - small - high - short - thick - thin - wide big - low - broad - narrow - long

Noun	Adjective	Opposite
length	1)long	2)short
width	3)wide	4)narrow
height	5)high	6)low
thickness	7)thick	8)thin
size	9)large	10)small

5 - Derivation

Derived word	defintion (using the base word)
manager	someone who 1)manages.
security	the fact of being 2)secure.
specification	the act of being 3)specific.
electronic	related to 4)eletronics.
incorrectly	in an 5)incorrectway
employee	someone who is .employed
accountable	who / which can be 6)accounted for
accuracy	the fact of being 7)accurate

6 - Fill in with : consist of - consist in - comprise

- The machine has three main parts = it 1)comprises three main parts
- Annealing 2) consists in. cooling metal very slowly
- Quenching 3)consists of two main operations: heating and cooling
- The last operation will 4)consist in welding the two pieces of metal

PART 3

consumption ,to consume - control, to control - to convert into -to (air/water) cool - core - cost-effective, cost-effectiveness - current - customized - cylinder - data processing - to decrease (by X%) - defect, defective - dependable, dependability - design, to design - to develop - device - dial.

1 - Match A and B

A : ❶computer, ❷breakdown, ❸equipment, ❹transformer, ❺most important / essential, ❻reduction.

B : to convert into 1)❹transformer, to decrease 2)❻reduction,

dependability 3)❷breakdown, to alter 4)❹transformer,

data processing 5)❶computer, defective 6)❷breakdown

device 7)❸equipment, core 8)❺most important / essential

2 - "False friends" - Translate into French

1) to control (RARELY means "contrôler")= **manipuler** 2) to actuate (=déclencher, activer
3) design=**concevoir, dessiner** 4)dependable =**fiable**. - 5) to complete=**terminer** 6) to achieve = **accomplir** 7) a mechanic=**un mécanicien**
8) current = **actuel**

3 - Fill in with words from the list above

- This car runs on very little petrol : its **1)consumption** is only 4 liters per 100 km.
- A Japanese firm has just **2) developed** the first electronic navigation system for cars which is really accurate and **3)dependable**(= reliable).
- This technique is still very expensive, but in a few years it will become **4)cost-effective**
- You can read the voltage on the **5)control** of the voltmeter
- The internal circuits are **6)cooled** by powerful fans (= ventilateurs)
- Pneumatic **7)cylinders** can be used to direct parts into the required routes.

4 - Find the root-word

1)knowledge **KNOW** 2)illness **ILL** 3)powerful **POWER**. 4)unseeable **SEE**
5)reasonably **REASON** 6)unattainable **ATTAIN** 7)disagree**AGREE** 8) carefully **CARE**
9)understandable **UNDERSTAND** 10)completion**COMPLETE** 11)unplug **PLUG**
12)microprocessor **PROCESS**

5 -Instructions : Match A and B

A - ①check - ②ensure- ③enable - ④remove - ⑤fit - ⑥avoid - ⑦weld - ⑧withdraw -
⑨slide - ⑩prevent - ⑪raise - ⑫decrease -

B 1) s'assurer **②ensure** .2) réduire**⑫decrease** 3) empêcher.**⑩prevent**
4) enlever (2 verbs)**④remove** **⑧withdraw** 5) éviter **⑥avoid** 6) installer **⑤fit**
7) vérifier **①check** 8) permettre **③enable** 9) faire glisser **⑨slide**
10) souder **⑦weld** 11) soulever **⑪raise**

6 - Meaning of ' to develop' - Match A and B (careful one definition in B is irrelevant)

A 1) Electric power is developed in the generator **④make, produce heat or energy**
2) A new method of fuel injection was developed during the war **③make for the first time** 3) There is a possibility of leaks developing in steam pipes **②start**

B - ①improve as a result of research - ②start - ③make for the first time - ④make, produce heat or energy

PART 4

**to decrease - design department - to disconnect - to dismantle - to display -
to distort - to disturb - drive, to drive - efficient, efficiency - to enable**

(somebody to do)- to enhance - to enlarge - to ensure (that) - to entail - equipment (invariable) - to exceed - to exert .

1 - Fill in with words from the list above

- In the last 20 years, the **1)efficiency** of computers has been greatly enlarged : they are more powerful and faster, they are now able to **2)display** accurate graphics on colour screens and the progress of electronics now **3)enables** users to carry them easily, moreover their prices have decreased. It is the discovery of microchips which has **4)enhanced** all this development. .

- When a motor **5)drives** a shaft (=un arbre) at very high velocity, the shaft tends to **6)distort** because of centrifugal forces.

- A fast hard disk **7)enables** users to gain time.

-Don't **8)exert** too much pressure on the bar, it might break.

-This plant will be **9)enlarged** by 500m².

-The maximum production is already 100 items a day, we can't **10)exceed** this amount.

- The machine was **11)dismantled** = taken to pieces in order to transport it easily

- In winter, the temperature **12)decreases**

2 -Words which are in the plural in French

news - information - equipment - data (very often) - To say : UNE info, UN équipement, etc. = A PIECE OF news / equipment

- In an automated system, information **1)(is / are ?)** fed back into the machine and (it modifies / they modify?) the original programme.

- This morning, I listened to the news on the radio : all the news **2)(was / were ?)** bad , there was not even (une bonne nouvelle) one **3)good piece of news**

3 - Match A and B

A- **1)** to make an addition or additions **⑦to supplement**. **2)** to situate**⑥to locate** - to put into place **①to fit**.**3)** connected system **④a network**.**4)** correctness, precision **⑤accuracy**.**5)** to control **⑧to operate** **6)** to show**③to display** **7)** to supervise the functioning of **②to monitor**

B- **①to fit** - **②to monitor** - **③to display** - **④a network** - **⑤accuracy** - **⑥to locate** - **⑦to supplement** - **⑧to operate**.

4 - Phrasal verbs

Use the following verbs to complete the sentences:

to build in - to fit in - to go off / to go out - to keep away - to pick up - to start up - to take out / to take off - to turn off / to turn out - to wear out

- There are no moving parts, so nothing (s'user) **1)wears out**

- The time counter is (incorporer) **2)built in**
- Hands must be (tenir à l'écart) **3)kept away** from the moving mechanism
- (enlever, retirer) **4)take off** the cover in order to access the inside of the unit
- MS DOS provided the date and the time when you (mettre en route) **5)start up** the system
- The light will (s'éteindre) **6)go off** after 2 or 3 seconds
- Thanks to the ID Sensing element you can (capter) **7)pick up** better signals
- (éteindre) **8)turn off** the power supply before you remove the cover
- To (installer) **9)fit in** the unit, you must first make sure that (etc....)

5 - Find two synonyms for 'to decrease' (circle the right words)

- 1) to fall -
- 2) b/ to rise -
- 3) to fail -
- 4) to drop -
- 5) to lower

PART 5

a facility - to fail -to fail to meet specifications - failure - fault, faulty - feature, to feature - to feed - field - fitted with - to fit - flaw -flow - fuel - full-scale / full-size- to function.

1 - Find synonyms in the list above

- 1) defect (in part 3) **fault**
- 2) defective (in part 3) **faulty**
- 3) breakdown (in part 2) **failure**
- 4) equipped with **fitted with**
- 5) to install. **to fit**

2 - Fill in with words from the list above

- This computer **1)features** a 17'' NEC Multisync display as well as a fast 2 Gb hard disk.
- Faulty parts are parts which **2)fail to meet specifications**
- Innovation in the **3)field** of robotics still continues.
- The management has decided a \$100,000 program to modernize the **4)facility**
- Electrons **5)flow** from the negative to the positive terminal.

- The TV won't work and yet, I've checked everything. I don't know why there's a **6)flaw/fault** and I can't find out the origin of the **7)failure**

3 - "False friends" - Translate

- 1) Electronic instruments controlled by digital codes : des instruments électroniques **COMMANDÉS** par des codes numériques.
- 2) The fuel used in nuclear reactors is enriched uranium : le **CARBURANT** qui sert dans les réacteurs nucléaires est de l'uranium enrichi.
- 3) Musicians now often rely on computerized instruments : maintenant, les musiciens **S'AIDENT DE / UTILISENT** souvent des instruments informatisés.
- 4) He has already achieved a lot, but it's far from finished : il a déjà **ACCOMPLI** beaucoup, mais c'est loin d'être fini.
- 5) The facilities will be made larger : les **INSTALLATIONS** seront agrandies.

4 - The meaning of a word according to its function : Are the words in capital verbs or nouns?

- 1) With optical fibre **LINKS** are getting cheaper ...**N**
- 2) ... which runs through cables and **PLUGS** between instruments.**V**
- 3) When the processors **CONTROL** the interface.**V..**
- 4) Low-cost PC-based package **OFFERS** cost less than £800. Verbe singulier ? **N**
- 5) This low-cost PC-based package **OFFERS** free software as well. **V**

5 - Computers vocabulary (Match A and B)

A : ①boot - ②back up - ③display - ④input - ⑤erase - ⑥load - ⑦process - ⑧recover - ⑨type

B : 1)charger ⑥**load** .2) récupérer ⑧**recover**. 3) traiter ⑦**process** 4)
afficher ③**display** 5) sauvegarder ②**back up** 6) démarrer ①**boot** 7) ,
entrer au clavier ⑨**type** 8) effacer ⑤**erase**

6 - More phrasal verbs - Substitute a formal verb (from List A) for the phrasal verb in italic print

A - to rotate - to establish -to constitute - to dismantle - to depress/ to lower
- to [re]assemble - to achieve - to incorporate

- B** - A number of modifications were **built into** the machine 1)**incorporated**
- Multi-stage pumps are **made up of** several impellers on one shaft 2)**constituted**
 - Tests were **carried out** on many specimens 3)**achieved**
 - The lever must be **pushed down** to start the motor 4)**lowered/depressed**
 - The machine can be **taken to pieces** **dismantled** and **put together [again]**in little time 5)**reassembled**
 - The company **set up** a new factory in the industrial area 6)**established**
 - The magnetic field appears to **go round and round** 7)**rotate**

PART 6

gear (2 meanings) - to go wrong -to handle - to harden - to heat (up) - to house -to impart - to implement - to increase (BY x%) - to insert - a jack - a joint - to keep ... from - a lack of, to lack -to leak, leakage - to lengthen - light (adjectif) - to link -load ,to load - locate - loss - low-cost - lubricant

1 - Match A and B

A - 1)place ②to locate, 2)better salaries③to increase, 3)long⑩to lengthen, 4)computer⑥to display, 5)grease and oil⑨lubricant, 6)toothed wheel①gear, 7)arm and hand④to handle, 8)price⑤low-cost, 9)pneumatic⑦jack, 10)warm⑧to heat up

B - ①gear, ②to locate, ③to increase, ④to handle, ⑤low-cost, ⑥to display, ⑦jack, ⑧to heat up, ⑨lubricant, ⑩to lengthen.

2 - Give the opposite

1) to increase **to decrease**, 2) to connect **to disconnect**, 3) model (see part 5) **full-scale.**, 4) important **unimportant**, 5) minor **major**, 6) concrete **abstract.**, 7) regular **irregular**, 8) top **bottom**, 9) heavy **light**

3 - Computers vocabulary. Match A and B

A ①hardware - ②software - ③storage - ④word processor - ⑤spreadsheet - ⑥hacker - ⑦patent - ⑧byte - ⑨data capture - ⑩digit.

1)tableur⑤spreadsheet 2) traitement de texte ④word processor 3) chiffre⑩digit. 4) octet ⑧byte 5) saisie des données ⑨data capture 6) logiciel②software 7) stockage ③storage 8) pirate ⑥hacker 9) matériel ①hardware 10) brevet ⑦patent

B ①to delete - ②to troubleshoot - ③to enter / to key in - ④to reset - ⑤to feed.

1) réinitialiser ④to reset 2) alimenter ⑤to feed 3) localiser une panne ②to troubleshoot 4) effacer①to delete 5) entrer (des données)③to enter / to key in

4 - Verbs ending with -en

Example : *to make / become whiter = to whiten*

a/ to make / become deeper 1) **deepen**

- to make / become shorter 2) **shorten**

- to make / become worse 3) **worsen**

- to make / become wider 4) **widen**

- to make / become thicker 5) **thicken**

- to make / become harder 6) **harden**

b/ A bit more complex :

- to make / become stronger 1) **strengthen**

- to make / become longer 2) **lengthen**
- . to make / become better 3) **improve** (careful!!!!)

5 - Imperial Units

- **A load of 10 lb is exerted on the system**
- **A big coin has (approximately) a 1'' diameter**
- **This page is (approximately) 1' long.**

1' = 1 ..1) **in** (abréviation) = 1....2) **inch**.... (mot complet) = ..3) **2,5**.....cm (environ)

1'' = 1 .4) **Ft**... (abréviation) = 1.5) **foot**..... (mot complet) = .6) **30,4**....cm (environ)

1 .7) **yd**.... (abréviation) = 1 yard (mot complet) = ..8) **91,4**.cm (environ)

1 .9) **mi**.... (abréviation) = 1 mile (mot complet) = .10) **1,6** ..km (environ)

1 .11) **lb**.... (abréviation) = 1 pound (mot complet) = ..12) **0,453**.....kg (environ)