

# BASIC CIVIL ENGINEERING VOCABULARY

( for preliminary exams and exams)

civil engineering – građevina (struka)  
civil engineer – inženjer građevine  
structural engineering – visoka gradnja  
transportation engineering – niska gradnja  
hydraulic engineering – hidrogradnja/vodogradnja  
environmental engineering – okolišno/sanitarno graditeljstvo  
construction industry – graditeljstvo (privredna grana)  
(construction) site – gradilište  
building site manager/ building site chief - šef gradilišta  
supervising engineer – nadzorni inženjer  
construction/building material – građevni materijal  
construction/building machine- građevinski stroj  
(to sign a) contract – potpisati ugovor  
to bid to a tender /competition - javiti se na tender/natječaj  
to design (a road, dam, tunnel, transmission tower....) - projektirati ( cestu, branu, tunel, dalekovod....)  
design/ project - projekt  
construction/building worker – građevinski radnik  
construction/building work - građevinski posao (poslovi)  
investor (building owner) – investitor  
contractor – ugovaratelj, izvođač radova

## VOCABULARY AND TERMS FOR PRELIMINARY EXAMS AND EXAMS

### Unit 1

column/post /pier - stup  
beam/ lintel – greda  
fluted column – žljebasti stup  
attached to limestone wall – pričvršćen za vapnenački zid  
burial chamber- grobna komora  
square – četvrtast, kvadrat  
rectangular – pravokutni, pravokutnik  
circular – kružni  
circle- krug  
trinagular – trokutast  
triangle - trokut  
mastaba – egipatska grobnica  
(air) shaft – okno (zračno) okno  
face of a mastaba – pročelje grobnice

to enlarge/extend a structure with an additional tier – povećati/proširiti strukturu s dodatnom stepenicom

two-tiered structure – dvostepena struktura

extension – proširenje

to line with tiles – obrubiti pločicama

masonry – zidani dio građevine

series of steps – niz stepenica

smooth side – glatka stranica

casing/covering stone – pokrovno kamenje, pokrov

slanting – kos, nakošen

square base/basis – četvrtasta podloga, temelj

## Unit 2

copper chisel - bakreno dlijeto

iron saw – željezna pila

quarry – kamenolom

ascending passage(way) – prolaz koji se uspinje

descending passage(way) – prolaz koji se spušta

subterranean chamber – podzemna komora

coating/covering – pokrov

highly polished limestone – dobro uglačan vapnenac

## Unit 3

bearing masonry – nosiva zidana konstrukcija

inlaid marble – umetnuti mramor

to inlay a material – umetnuti materijal

onion -shaped domes – lukovičasta kupola

flanking tower – bočni toranj

transverse axis – poprečna osovina, os

sandstone - pješčenjak

inner/outer dome – unutarinja/vanjska kupola

tile- keramička pločica

pozzolana – pucolan (građ. materijal napravljen od vulkanskog pepela)

iron rod/bar – željezna šipka

clamp – klema, spona

to drill holes – izbušiti rupe

to rust away – nestati/istruniti od hrđe

baked/dried clay – pečena/sušena glina

tightly pressed grains – gusto zbijena zrnca

subject to various stresses/forces – izložen različitim naprezanjima/silama

plated with silver/gold/copper – obložen srebrom/zlatom/bakrom

separated by joints – odvojen spojnica

#### **Unit 4**

to face with mortar – obložiti žbukom  
mortar – žbuka  
to bind, bound, bound - povezati  
binding material/agent – vezivni materijal, vezivo  
flying buttress – potporni poluluk  
blunt - tup  
wedge-shaped stone/voussoir –klinasti kamen  
vaulted roof – zasvođen krov  
to exert pressure – vršiti pritisak  
to spread the weight - rasporediti težinu  
gargoyle – vodoriga  
attached to a gutter – pričvršćen za žlijeb  
to lean outward – nagnuti se prema naprijed  
temporary wooden frame(work) – privremeni drveni okvir  
centering – kalup  
carpenter – tesar  
to hoist centering into place – uspraviti kalup na (odgovarajuće) mjesto  
fastened to the piers – pričvršćen za stupove  
pointed/flat/roof – šiljasti/ravni krov  
arch and vault – luk i svod  
tile/slate – krovovac (tile može značiti i keramička pločica – ovisno o kontekstu)  
stained glass window – vitraj, oslikani prozor u katedrali  
transept vault – poprečna lađa  
nave - crkvena lađa  
stonecutter – klesar  
to calculate proportions - izračunati omjere  
angle of treads – kut gazišta na stepeništu  
winding staircase – zavoјito stepenište  
craftsman – zanatlija  
to face with lime – oblagati vapnom  
distribution of moisture/moist/dump – širenje vlage

#### **Unit 5**

alloy (of iron) - legura željeza  
carbon – ugljik  
iron ore – željezna ruda  
load bearing capacity - nosivost  
curtain wall – pregradni zid  
triangular plot- trokutasti komad zemljišta  
multi-story building – višekatnica  
to rivet (together) – zakovati  
steel frame/skeleton – čelični okvir  
elevator – dizalo (za građevinski materijal)

to convert cast iron into – pretvoriti lijevano željezo u  
to pour concrete into a form/mould – izliti beton u kalup  
corrosion resistant – otporan na hrđanje  
hardness- tvrdoća  
ductile/ductility – rastezljiv/rastezljivost  
malleable/malleability - kovan (koji se lako obrađuje kovanjem)  
tough/toughness - žilav/žilavost  
resistance to brittleness – otpornost na lomljenje  
exposed to compressive/tensile force – izložen tlačnoj/vlačnoj čvrstoći  
wrought iron – kovano željezo  
to improve properties of a material – poboljšati, popraviti svojstva materijala

## **Unit 6**

irrigation channel – kanal za navodnjavanje  
transmission tower – dalekovod  
bedrock – čvrsta temeljna stijena, podloga  
to heat/to grind limestone – zagrijavati/mljeti vapnenac  
powder – prah  
aggregate – agregat  
crushed rock - drobljeno kamenje  
gravel – šljunak  
versatile material – svestran materijal  
to pour/pump/spray concrete into different forms – lijevati/pumpati/ubrizgavati beton u različite kalupe  
tensile strength - vlačna čvrstoća  
compressive strength - tlačna čvrstoća  
to complement each other – međusobno se dopunjavati  
to place/insert steel bars into liquid concrete – postavljati čelične šipke u tekući beton  
to slip (with)in concrete – klizati unutar betona  
alkaline/acid chemical reaction – lužnata/kisela kemijska reakcija

## **Unit 7**

skeleton/ (steel) framework of a structure – kostur/( čelični) okvir zgrade  
distribution of forces – raspodjela sila  
transmission of load – prijenos opterećenja  
construction fault – građevinska pogreška  
life span (of a structure) – životni vijek (građvine)  
girder – glavna greda, nosač  
fatigue – zamor materijala  
load – opterećenje  
apartment/residential building – stambena zgrada  
ceiling – strop  
to rest on bearing walls - počivati na nosivim zidovima, stijenkama  
foundation(s) – temelji

to dig a construction pit – iskopati (građevinsku) jamu  
reinforced concrete - armirani beton  
excavator – bager  
resilient material – otporan materijal  
to pour/ inject concrete into forms around steel grid – izliti/injektirati beton u kalupe oko  
čelične mreže  
truck with a rotating drum – kamion s rotirajućim bubnjem  
crane – dizalica  
to attach a crane to the top of a building – pričvrstiti dizalicu za vrh zgrade  
pump – crpka  
to force concrete – tiskati beton (npr. na više katove zgrade)

### **Unit 8**

to spread over a concrete slab – rasporediti po betonskoj ploči  
mat – temeljna stopa stupa  
to exert pressure – vršiti pritisak  
to exceed (weight) bearing capacity – premašiti nosivost  
bedrock – čvrsta temeljna stijena (pogodna za temeljenje)  
shallow (bedrock, foundation...) – plitka (temeljna stijena, temelj...)  
to slope sharply – strmo se spuštati, naglo padati  
to support immense weight – podupirati golemu težinu  
to excavate a basement – iskopati podrum  
friction pile – vrlo tanki, dugački stup za temeljenje  
reinforced by grout – armiran cementnim mlijekom/ cementnom žbukom za injektiranje  
to inject into forms – injektirati/ubrizgati u kalupe  
(construction) joint in the pile mat – pukotina u betonskoj ploči  
superstructure – nadgradnja  
to calculate accuracy – izračunati točnost  
core wall – jezgri zid  
columns joined by rings – stupovi povezani prstenovima  
cantilevered slab – konzolna ploča  
composite floor – montažni kat  
annex – prigradnja  
to monitor precision - nadgledati/ kontrolirati preciznost

### **Unit 9**

irrigation - navodnjavanje  
barrier – prepreka  
to impound water – akumulirati vodu  
to generate electricity – proizvoditi struju  
water-supply system – vodoopskrbni sustav  
flood and drought – poplava i suša  
extensive survey – opsežno/detaljno mjerenje  
to dam a river – izgraditi branu na rijeci

cofferdam – podvodna komora za građenje u suhim uvjetima  
to divert a river – skrenuti tok rijeke  
to excavate a temporary channel – iskopati privremeni tunel  
proximity of transportation facilities – blizina prijevoznih sredstava  
masonry dam – zidana brana  
embankment – nasip  
swift-flowing flow – brzi vodeni tok  
narrow valley – uska dolina  
compacted earth – čvrsto zbijena/nabijena zemlja  
crushed rock – drobljeno kamenje  
velocity – brzina  
seepage – curenje vode ispod temelja  
protective features – zaštitne mjere  
leaking – curenje  
porous material – porozni/ šupljikav materijal  
sandstone – pješčenjak  
silting formation – muljevita naslaga  
to avoid construction fault – izbjeći pogrešku u građenju  
edifice – golema građevina (npr. brana)  
to trigger eviction – uzrokovati/pokrenuti prisiljno iseljenje  
inundation – plansko poplavljanje terena  
to outweigh gains- premašiti prednosti/dobitke

## **Unit 10**

steel reinforcing bar – čelična šipka za armiranje  
(initial) diversion – (početno) skretanje toka rijeke  
storage (reservoir) – akumulacijski bazen  
storage volume – kapacitet akumulac. bazena/volumen akumulacije  
runoff – pritok vode u akumul. bazen  
(formation of) silt – (stvaranje) mulj(a)  
power station/powerhouse – elektrana (pogon za proizvodnju el. struje)  
spillway – propusni o tvor  
output – ukupna količina proizvedene struje  
shipping – prijevoz robe brodom  
down/upstream area – niz/uz/vodno područje  
impervious – vodonepropustan  
rock slide – odron kamenja  
in direct ratio with – u izravnom omjeru s  
impounded water – akumulirana voda  
to submerge land – potopiti zemljište  
to discharge surplus (of water) – osloboditi višak vode  
to exceed the optimal reservoir level – premašiti optimalnu razinu vode u akumul. bazenu  
overflow – preljev(nica)  
portion (of a dam, load...) – dio (brane, opterećenja...)

well-rounded crest (of a dam) dobro zaobljen vrh (brane)

## Unit 11

to provide continuous passage – pružiti trajni prijelaz

to extend over an obstacle – produžiti preko prepreke

to span a gap – premostiti otvor

span – raspon luka

timber – trupac, drvena građa

support pier – potporni stup

elaborate scaffold(ing) – složena skela

truss – rešetka

to convert cast iron into steel – pretvoriti lijevano željezo u čelik

large-scale steel suspension bridge – čelični viseći most velikih razmjera

reinforced by steel girder – ojačan čeličnim nosačem

beam bridge – gredni most

arch bridge – lučni most

suspension bridge – viseći most

cable-stayed bridge – ovješeni most

cantilever bridge – konzolni most

truss bridge – rešetkasti most

movable bridge – pomični most

floating bridge/pontoon – plutajući most/ponton

amount of load - količina opterećenja

depth to firm bedrock – dubina do čvrste temeljne stijene

to pour simple concrete mat – izliti jednostavnu betonsku temeljnu stopu

to excavate/ to extend down to firm bedrock – iskopati/produžiti sve do čvrste temeljne stijene

within submerged caisson – unutar potopljene podvodne komore

rigid horizontal - kruti vodoravni element

to build outward – graditi prema van

abutment – potporni stup/ upornjak

to prevent from spreading apart – spriječiti da se raširi/razdvoji

buried in an anchorage – ukopan u sidrište/sidreni blok

attached to towers/roadway – pričvršćen za toranj/cestu

## Unit 12

gale wind – bura

strong current – snažna morska struja

to support with a truss – poduprijeti rešetkom

complex network of triangular braces – složena mreža trokutastih spona

rigid – krut

tuned mass damper – amortizer

to sway in the opposite direction – ljujati u suprotnom smjeru  
scale model – probni model  
center span – središnji luk  
susceptible to the influence of wind – podložan utjecaju vjetra  
load acting transversely to the axis – opterećenje koje djeluje poprečno na osovinu  
bending strength – otpornost na savijanje  
column diameter – promjer stupa  
reinforced concrete – armirani beton  
three-dimensional post and lintel network /grid– trodimenzionalna rešetka  
topple under wind – srušiti se pod utjecajem vjetra  
to impose (horizontal) forces – djelovati horizontalnim silama  
lateral stability – bočna stabilnost

### **Unit 13**

open-cut excavation – otvoreni iskop  
power tool – građevinski stroj  
to face with masonry – ozidati  
to conform to irregularities of the terrain – prilagoditi se nepravilnostima terena  
level stretch/reach – dionica kanala  
lock – predkomora  
walled section – ozidani dio  
to permit a vessel - dopustiti plovilu  
ocean-going vessel – preko-oceanski brod  
barge – teglenica, šlep  
tugboat/towboat – remorker  
lashed together – zajedno privezani  
open-hopper barge – otvoreni šlep  
covered dry-cargo barge – zatvoreni šlep  
commodity – roba  
inland port – luka u unutrašnjosti  
double-sided lock – dvostruka ustava  
raw material - sirovina

### **Unit 14**

elongate. linear, underground opening – izduženi, ravni, podzemni otvor  
water drain - odvodna cijev  
sewer – kanalizacija  
utility/communal canal – komunalni kanal  
subway – podzemna željeznica. metro  
drilling and blasting – bušenje i miniranje  
tunnel lining – tunelska oplata  
mole – krtica (građ. stroj)  
pneumatic drill – pneumatska bušilica  
tunneling shield – tunelski štit



conveyor belt – pokretna traka  
boring machine – bušilica  
custom-built machine – stroj izrađen po mjeri  
gabled roof – zabatni krov  
cantilevered balcony – konzolni balkon  
curtain wall – pregradni zid  
truss consisting of three members – rešetka koja se sastoji od tri štapa  
slanting member – kosi element  
rafter – krovna greda  
to project outward – stršati prema naprijed  
tie rod (under compression) – spojnica pod djelovanjem tlačne sile

