

# construction



/kən'strʌkʃən/

*n.* 建筑, 建设, 施工

<b>construction drawing</b>	施工图
<b>construction industry</b>	建筑业
<b>construction project</b>	建设项目
<b>construction safety</b>	施工安全
<b>construction site</b>	建筑工地

A **construction** drawing guides the **construction** process by depicting detailed information about an architecture, including its dimensions and installation materials.

施工图通过展示建筑的详细信息来指导施工过程, 包括其规模和用材。

Every **construction** project has risks that may come in the forms of quality, safety, time, and cost.

每一个建设项目都有风险, 可能关乎其质量、安全、时间和成本。

Disaster preparedness is a vital part of **construction** safety.

灾害预防是施工安全的一个重要组成部分。

## Note

-(t)ion 是一个常见的后缀, 主要用于构成名词, 常常表示“行为、状态、(行动的)结果”。

Day  
1

# project



/ˈprɑːdʒekt/

n. 项目, 工程

<b>project budget</b>	项目预算
<b>project cost</b>	项目成本
<b>project engineer</b>	项目工程师
<b>project management</b>	项目管理
<b>project schedule</b>	工程计划
<b>project specification</b>	工程规范

A clear **project** schedule should organize tasks, resources, and due dates in a logical sequence so that a **project** can be completed on time.

一个清晰的工程计划应该按照合理的顺序协调任务、资源和工程截止日期, 以便工程能够如期完成。

**Project** specifications are essential to building a framework for a **project** and helping engineers to reflect and formalize their needs and objectives.

工程规范有助于建立工程框架, 并反映和确定工程师的需求和目标, 因此必不可少。

Day  
2

# design



/dr'zɑ:m/

*n.* 设计, 图样

**design process**

设计过程

**design team**

设计组

**general design**

总体设计

**landscape design**

景观设计

**urban design**

城市设计

A good landscape **design** can add as much as 15% to the value of your house compared to other houses in the neighborhood.

一个好的景观设计可以让你的房子比附近其他房子多 15% 的价值。

With the 3D interior **design** app, you can upload pictures of the existing spaces and use the tool's functions to explore everything you can do.

使用三维室内设计应用程序, 你可以上传现有空间的照片, 并利用工具的功能来探索你可以做的一切。



Day  
3

# building



/'bɪldɪŋ/

n. 建筑, 房屋

<b>building construction</b>	建筑施工
<b>building material</b>	建筑材料
<b>building system</b>	建筑系统
<b>green building</b>	绿色建筑

The architects are trying to optimize the **building systems** by analyzing existing data to predict future scenarios and uncover opportunities for improvement.

建筑师们正尝试着通过分析现有的数据来预测未来的情况, 发现可改进之处, 从而优化建筑系统。

Proponents say that the green **building** is not only environmentally friendly, but also healthier and more cost-effective.

支持者认为绿色建筑不仅对环境友好, 而且更健康、更经济适用。

The smart **building** also provides a better air ventilation system to improve the environmental quality.

该智能建筑还提供了更好的通风系统, 从而改善环境质量。

## Note

后缀 **-ing** 可加在一些名词或者动词后构成名词。它加在名词后构成的名词通常表示“用于……、包括……、涉及……”, 如 **flooring**; 加在动词后构成的名词通常表示“动作、动作的过程”, 如 **dancing**。

Day  
4

# water



/'wɔ:tər/

n. 水, 水域

**water consumption**

耗水量

**water system**

水系统

**water treatment**

水处理

**drinking water**

饮用水

**Water** treatment is essentially required before **water** is delivered to the consumer to insure **water** is medically fit for human consumption.

水在送到饮用者手中之前，基本上需要进行水处理，使其不会危害人类健康。

The disinfecting effect of chloramines lasts long, further protecting **water** quality throughout the distribution system.

氯胺的消毒效果持久，进一步保护了整个配水系统的水质。



Day  
5

# equipment



/i'kwɪpmənt/

n. 设备, 装备

**equipment cost**

设备成本

**equipment maintenance**

设备维护

**construction equipment**

施工设备

**heavy equipment**

重型设备

**protective equipment**

防护设备

**Equipment maintenance** insures that the machine is operational so that the production activity is not interrupted due to any machine issue.

设备维护确保机器能够运行, 使生产活动不因任何机器问题而中断。

Signs inside that blue circle indicate what **safety equipment** is required in a particular area of the construction site.

蓝色圆圈内的图标表示在建筑工地的特定区域需要什么安全设备。

## Note

-ment 是一个常见的名词后缀, 常用于表示“做某事的动作、动作的实施者或结果”。

Day

6

# concrete



/'kɑ:ŋkri:t/

n. 混凝土

**concrete pavement**

混凝土路面

**concrete slump**

混凝土坍落度

**concrete test**

混凝土试验

**high-strength concrete**

高强度混凝土

**Concrete** embedded with steel bars is called reinforced **concrete**.

嵌有钢筋的混凝土叫作钢筋混凝土。

**Concrete** paving test is required for all projects according to the company regulation.

根据公司规定，所有工程都需要进行混凝土铺装试验。

The client may permit the contractor to continue the work and wait to see whether the **concrete** strength reaches the designated level.

客户可以允许承包商继续施工，并等待观察混凝土强度是否达到指定水平。

Day  
7

# steel



/sti:l/

n. 钢, 钢材

**steel frame**

钢框架

**steel member**

钢构件

**steel structure**

钢结构

**structural steel**

结构钢

The **steel frame** regularly comprises vertical columns and horizontal beams which are bolted or welded together.

钢框架通常包括垂直柱和水平梁，它们通过螺栓连接或焊接相连。

There are different categories of **steel** structures which can be used in construction.

有不同种类的钢结构可以用于建筑施工。



Day  
8



# site



/saɪt/

*n.* 工地, 现场

<b>site clearing</b>	场地清理
<b>site condition</b>	工地条件
<b>site inspection</b>	现场视察
<b>site management</b>	现场管理
<b>site security</b>	现场安全

Training can have a profound effect on **site** safety.

培训可以对现场安全产生重大影响。

Competent workers are able to adapt to changing circumstances on a construction **site**.

有能力的工人能够适应建筑工地不断变化的环境。

Trees and all sorts of vegetation on the **site** will be removed at the clearing phase.

在清理阶段, 工地上的树木和各种植被将被移除。

Day  
9

# safety



/ˈseɪfti/

n. 安全

**safety** inspection

安全检查

**safety** measure

安全措施

**safety** regulation

安全规章

insure **safety**

确保安全

occupational **safety**

职业安全

Since the 20th century, Chinese researchers have been working day and night in order to enhance **safety** measures.

自二十世纪以来，中国的研究人员夜以继日地工作，以加强安全措施。

**Safety** supervisors are involved in creating, maintaining, and discussing **safety**-related policies and procedures, and insuring that they are followed.

安全监督员参与制定、维护和讨论与安全相关的政策和程序，并确保这些政策和程序得以执行。

Day  
10

# inspection



/ɪnˈspekʃən/

n. 检验, 检查, 视察

<b>inspection instrument</b>	检验仪器
<b>inspection report</b>	检查报告
<b>inspection requirement</b>	检验要求
<b>inspection routine</b>	检查程序
<b>inspection service</b>	检查服务
<b>property inspection</b>	财产清查

The **inspection** report contains the inspector's professional suggestions concerning the need for the repair or replacement of certain items.

在这份检查报告中, 检查员就需要修理或更换的物品提出了专业的意见。

As a home **inspection** company, we can efficiently inspect your house in as short as a few hours.

作为一家房屋检测公司, 我们可以在短短几个小时内高效地检测您的住宅。

Day  
11

# cost



/kɒ:st/

*n.* 费用, 成本

<b>cost analysis</b>	成本分析
<b>additional cost</b>	额外费用
<b>construction cost</b>	工程造价
<b>maintenance cost</b>	维修费用
<b>total cost</b>	总成本
<b>unit cost</b>	单位成本

The company is struggling to stay afloat at present as they rely on customer revenue to cover operation and maintenance **costs**.

这家公司现在正努力维持生计, 因为该公司要依靠客户收入来支付运营和维修费用。

It is estimated that the total **cost** for this year's construction project will be at least two times higher than last year's project.

据估计, 今年建设项目的总成本将会比去年的项目至少高出两倍。

An effective **cost** estimate of the time and resources needed for your project will help avoid some undesirable situations.

对项目所需的时间和资源进行有效的成本估算将有助于避免一些不理想的情况发生。

Day  
12

# engineer



/,endʒə'nɪr/

*n.* 工程师

**construction engineer**

施工工程师

**consulting engineer**

顾问工程师

**environmental engineer**

环境工程师

**structural engineer**

结构工程师

Construction **engineers** have spent months sifting through the zone, which has been cordoned off.

施工工程师已经花了几个月的时间仔细检查这片封锁区。

A consulting **engineer** shall assign only qualified personnel to perform any service concerning the project.

顾问工程师只能指派有职业资格的人员提供与本项目有关的任何服务。

Environmental **engineers** are responsible for collecting environmental samples and data, performing soil assessments, and designing systems to safely eliminate waste.

环境工程师负责收集环境样本和数据，进行土壤评估，并设计可以安全处理垃圾的系统。

Day  
13

# material



/mə'triəl/

*n.* 材料, 原料

<b>material cost</b>	材料成本
<b>material supplier</b>	材料供应商
<b>backfill material</b>	回填材料
<b>filler material</b>	填充材料
<b>parent material</b>	母材料
<b>subgrade material</b>	路基材料

The inspector needs to verify the quality of the backfill material, the maximum lift height for the size of the trench, and the adequacy and uniformity of the compaction.

检验员需核查回填材料的质量, 沟渠尺寸的最大提升高度, 以及是否充分、均匀地压实。

Any subgrade material, which is found to be unsuitable, shall be removed and replaced as directed by the engineer.

若发现任何不合适的路基材料, 都应按照工程师的指示进行移除和更换。

Day  
14

# planning



/'plæniŋ/

*n.* 规划

**planning process**

规划过程

**land use planning**

土地利用规划

**national planning**

全国性规划

**rural planning**

乡村规划

**urban planning**

城市规划

The result of the **planning** process shall be a formal master plan for the entire city.

规划过程结束后应形成整个城市的正式总体规划方案。

Urban **planning** concerns itself with both the development of open land and the revitalization of existing parts of the city.

城市规划既关注旷地的开发，也关注城市已开发部分的振兴。

A construction plan should meet the **planning** requirements concerning the public interest and environmental benefits of the region.

建设规划应当满足该地区公共利益和环境效益的规划要求。

Day  
15

# management



/ˈmænɪdʒmənt/

*n.* 管理, 经营

construction management	施工管理
cost management	成本管理
risk management	风险管理
safety management	安全管理
waste management	废物管理

Waste management includes the management of waste water, solid waste, industrial waste, and other pollutants.

废物管理包括对废水、固体废物、工业废物和其他污染物的管理。

In general, in terms of urban management, the smart city explores a way to manage a city by combining communications information and urban design concepts.

一般来说, 在城市管理方面, 智慧城市探索的是通过结合通信信息和城市设计理念来管理城市的方式。

Day  
16



# air



/er/

n. 空气

**air conditioner**

空调设备

**air elimination**

排气

**air moisture**

空气湿度

After two years of use, it is probably time to have your **air conditioner** serviced.

使用空调设备两年以后，可能就该对它进行检修了。

The consequences of **air pollution** include global warming and negative health impacts on humans and animals.

空气污染的后果包括全球变暖以及给人类和动物的健康带来负面影响。

Take a walk down to the beach or a stroll out into the country for a breath of fresh **air**.

去海滩散散步或者去乡间逛一逛，呼吸新鲜空气。



Day  
17

# urban



/'ɜːrbən/

adj. 城市的

<b>urban land</b>	城市土地
<b>urban management</b>	城市管理
<b>urban planner</b>	城市规划人员
<b>urban system</b>	城市体系

**Urban** planners must consider three key aspects of a city as they map out their programs: the physical environment, the social environment, and the economic environment.

城市规划人员在制订规划时必须考虑城市的三个关键方面：自然环境、社会环境和经济环境。

In built-up **urban** areas, the speed limit will be lowered.

在建筑物密集的城区，最高限速将会更低。

**Urban** planning, by definition, is the planning of city strategies, structures, and policies.

城市规划，顾名思义，是对城市战略、结构和政策的规划。

Day  
18

# structure



/'strʌktʃər/

n. 结构, 构造, 建筑物

<b>structure</b> deformation	结构变形
basement <b>structure</b>	基底构造
building <b>structure</b>	建筑结构
concrete <b>structure</b>	混凝土结构

You should also insure that any water drainage systems are kept far away from the building **structure** and excavation site.

你也应确保所有排水系统都远离建筑结构和挖掘工地。

The **structure** is highly dangerous because it was built on unstable foundations.

这个建筑相当危险，因为它的地基不稳定。

Today, with the help of the software on your computer, you can design a **structure** in a day, which is much quicker than using paper and pencils.

如今，在电脑软件的帮助下，你可以在一天内设计出一个建筑，这比使用纸和铅笔要快得多。

Day  
19

# maintenance



/ˈmeɪntənəns/

n. 维护, 保养

<b>maintenance budget</b>	维修预算
<b>maintenance manual</b>	维护手册
<b>maintenance safeguard</b>	维护保障措施

The advantage of this model is that it can fully utilize the **maintenance budget** and plan the **maintenance cost** most reasonably.

该模型的优点是可以充分利用维修预算, 以最合理的方式规划维修费用。

Equipment **maintenance** is critical when the equipment is operated 12 hours a day, seven days a week.

当设备每周七天、每天十二小时运行时, 它的维护就变得至关重要。

Through this project plan, we can see fuel levels and plan our **maintenance schedule**.

通过这个项目规划, 我们可以看到燃料水平, 并制订我们的维护时间表。

Day  
20

# ventilation



/ˌventl'eɪʃən/

*n.* 通风

<b>ventilation air</b>	通风风流
<b>ventilation rate</b>	通风率
<b>ventilation system</b>	通风系统
<b>exhaust ventilation</b>	排气通风
<b>mechanical ventilation</b>	机械通风

**Ventilation** systems are provided in tunnels under construction to remove dust and poisonous gas during the construction and operation.

施工中的隧道装有通风系统，在隧道施工和运行过程中清除灰尘和有毒气体。

**Ventilation** moves outdoor air into a building or a room, and distributes the air within the building or room.

通风可以将室外空气带入建筑物或房间，并将空气散布到建筑物或房间里。



Day  
21

# structural



/ˈstrʌktʃərəl/

adj. 结构(上)的

<b>structural analysis</b>	结构分析
<b>structural design</b>	结构设计
<b>structural element</b>	结构部件
<b>structural engineering</b>	结构工程
<b>structural member</b>	结构构件

A detailed **structural** analysis was needed to prepare working drawings for constructing the stadium.

需要进行详细的结构分析来准备建造体育场的工作图。

A brace is a **structural** element used to stiffen or support a portion of a structure or frame.

支架是一种结构部件，是用来加强或支撑结构或框架的一部分。

The volume of concrete required for a concrete structure can be calculated by summing up the volumes of each **structural** member or each parts of members.

混凝土结构所需的混凝土体积，可以通过将各结构构件的体积或构件各部分的体积相加得到。

## Note

-al 作后缀可置于一些名词之后构成形容词，表示“……的，具有……特性的”。

Day  
22

# property



/'prɒ:ptəri/

n. 财产, 房产, 性质

**property** accumulation

财产积累

**property** management

财产管理

**property** valuation

财产估价

commercial **property**

商业财产

real **property**

不动产

Real **property** includes the physical **properties** of real estate, but it expands its definition to include a bundle of ownership and usage rights.

不动产包括房地产实物, 但比房地产的意义更广, 它还包括一系列的所有权和使用权。

As a **property** inspection firm focusing on efficiency and technology, we deliver reports and documents electronically.

作为一家专注于效率和技术的财产清查公司, 我们提供电子版报告和文件。

Day  
23

# engineering



/ˌendʒəˈnɪrɪŋ/

n. 工程, 工程学

civil engineering	土木工程
environmental engineering	环境工程
gas engineering	煤气工程
mechanical engineering	机械工程
transportation engineering	运输工程
tunnel engineering	隧道工程

Environmental **engineering** is a field of broad scope that draws on such disciplines as chemistry, ecology, geology, hydraulics, hydrology, microbiology, economics, and mathematics.

环境工程是一个涉及面广泛的领域, 利用了化学、生态学、地质学、水力学、水文学、微生物学、经济学和数学等学科。

Hailed as an **engineering** wonder, the Hong Kong-Zhuhai-Macao Bridge further improves transport connectivity between Hong Kong, Macao, and major cities in Guangdong Province.

被誉为工程奇迹的港珠澳大桥, 进一步改善了香港、澳门和广东省主要城市之间的交通联系。

Day  
24



# estate



/ɪ'steɪt/

n. 大片地产，遗产

real **estate**

房地产

real **estate** broker

房地产经纪入

real **estate** developer

房地产开发商

commercial real **estate**

商用房地产

residential real **estate**

住宅房地产

Every commercial real **estate** property requires an investment in regular maintenance, utilities, facility management, and property taxes in order to operate properly.

每一处商用房地产都需要在定期维护、公用事业、设施管理和财产税方面进行投资，才能正常运作。

Residential real **estate** is the property intended for human habitation by a single family or multiple families, while commercial real **estate** focuses on business use.

住宅房地产是指供一个家庭或者多个家庭居住的财产，而商用房地产则侧重商业用途。

Day  
25

# quality



/ˈkwɒləti/

*n.* 质量, 品质

**quality assurance**

质量保证

**quality consciousness**

质量意识

**quality level**

质量水平

**quality plan**

质量计划

A project **quality plan** is a written plan that details how you will manage **quality** on a specific construction project.

项目质量计划是一种书面计划，详细说明了你将如何对特定的建设项目进行质量管理。

**Quality control (QC)** in construction is carried out by the team of QC engineers or specially trained teams.

施工中的质量控制由质量控制工程师团队或经过特殊培训团队进行。

Inefficient **quality management procedures** will result in great loss of time, money, material, and resources.

低效的质量管理程序将导致时间、金钱、材料和资源的巨大损失。

## Note

注意区分 **quality** 和 **quantity**，后者表示“数量，大量”（详见 Day 332）。

Day  
26

# architect



/'ɑ:rkətekt/

n. 建筑师

**architect engineer**

建筑工程师

**architect partnership**

建筑师合作关系

**chief architect**

总建筑师

**project architect**

项目建筑师

The jobs of an **architect** in different phases of a project include schematic design, design development, and construction documents preparation.

建筑师在项目不同阶段的工作包括简图设计、设计开发和施工文件的拟定等。

He began by working with a variety of **architects**, engineers, as well as iron and steel companies, amassing expertise in the new style of big building.

他开始与各种建筑师、工程师和钢铁公司合作，积累了新式大型建筑的专业知识。



Day  
27

# gas



/ɡæs/

*n.* 气体, 燃气

**gas appliance**

燃气用具

**gas emission**

气体排放

**fuel gas**

气体燃料

**greenhouse gas**

温室气体

**natural gas**

天然气

**oil gas**

油气

It is vital that all **gas** piping design is 100% compliant with the relevant legislation and current codes.

所有输气管的设计都要百分之百符合相关法规和现行规定，这一点至关重要。

In **gas** distribution systems, leaking pipes are repaired by shutting off the **gas** valve, tightening connections, and rechecking leaks with soapsuds.

在配气系统中，修复泄漏管道时需先关闭燃气阀，固定接口，再用肥皂水重新检查泄漏。

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# waste



/weɪst/

*n.* 废物，废料，垃圾

*adj.* 废弃的

**waste discharge**

排废

**waste disposal**

废物处理

**waste elimination**

废物清除

**waste gas**

废气

**industrial waste**

工业废料

Researchers are seriously concerned with this important subject of **waste disposal**.

研究人员非常重视废物处理这一重要主题。

Sustainable construction involves using renewable and recyclable materials in building projects to reduce energy consumption and toxic **waste**.

可持续建筑的建造包括在建筑项目上使用可再生和可回收材料，以减少能源消耗和有毒废物。



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# system



/ˈsɪstɪm/

n. 系统

distribution <b>system</b>	分配系统
drainage <b>system</b>	排水系统
heating <b>system</b>	供暖系统
plumbing <b>system</b>	管道系统
water supply <b>system</b>	供水系统

A malfunctioning drainage **system** can lead to a host of problems, including moisture intrusion into your home.

排水系统故障会导致一系列的问题，包括家里返潮。

The thermostat in a smart heating **system** can turn the **system** on and off to keep you comfortable.

智能供暖系统中的恒温器可以控制系统开关，让你感到很舒适。

The indoor plumbing **system** generally consists of two separate subsystems: one brings fresh water in and the other takes waste water out.

室内的管道系统一般由两个独立的子系统组成：一个输送清水，另一个排出废水。

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