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Electrical engineers were initially only used in projects relating to lighting, but their role expanded after the invention of the electric motor. Large-scale electrical motors eventually replaced steam power as the standard, small ones being used in things such as wristwatches. Electricity began to be used in a wide variety of applications, such as airplanes and cars.

The earliest automobiles were steam-powered, but at this point they began to be replaced by electric ones. The advent of electric power created many jobs for people who entered work as electricians and electrical engineers. Because certification was needed to work in such jobs, they received good pay. However the jobs in electric-powered assembly factories were not well paid because they did not require skill. The inventors of such technologies and the owners of the factories became rich, and the technologies they developed were the forerunners of the modern age of electricity and computers.

Another type of specialized work is pipeline engineering; in modern construction, pipelines are needed for everything from water to natural gas and heating. With the increasing industrialization of the world, the importance of pipelines engineering has been increasing. In New York City there are occasional explosions in natural gas pipelines, often resulting in tragic deaths. There different types of pipelines in everyday use include natural gas, water, and sewage pipelines. Neither the construction process nor maintenance can be neglected, especially with regard to sewage pipes. The cost of sewage pipes is more expensive than that of water pipes, perhaps three-quarters more. Leaks are an even more serious issue in natural gas pipelines because they can result in explosions and fires. Those who work on natural gas pipes sometimes need to put their lives at risk.

It is not easy to get a license to do pipeline work. All those who work on pipeline projects need to be familiar with government regulations. Only engineers with permits can establish businesses and register with the government. Such businesses can then hire workers without licenses, and do work with the government. When such workers get their licenses, they can become a partner in the business, which can be a lucrative position. Jobs in finance and investment are also good positions. No matter whether it is working as a stock broker or an insurance broker, such professionals must pass tests and obtain a license. These regulations are in place to prevent consumers from being cheated.

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Scientific research is another area of work that is worth mentioning. In today's world of continuously developing technology and science, there are numerous scientific researchers working behind the scenes to make such things possible. For example, the hard work of scientific researchers in the field of medical technology has made possible more delicate and precise diagnostic instruments. Although such researchers do not receive much pay, the magnitude of their contributions is great. The situation is the same in the field of pharmaceutical research. Scientific researchers work vigorously their entire career, and are happy just to succeed in their work. For example, when an astronaut reaches space in a rocket, his success is really the result of the success of researchers.

Environmental workers should also be mentioned. Environmental protectionism has developed quickly in the past few decades. In antiquity, people's lives were simple so there was not much waste, and things broke down naturally. Now the world is scientifically advanced and there is a great amount of industrial waste. With the raising of living standards, trash generated from homes has also increased. And as people's living standards are advancing, they are not paying attention to environmental protectionism, and water pollution has increased as a result. The world's rivers have accumulated much trash, and pollution in the water is especially problematic near chemical plants.

Thirty eight: Actor, celebrity, TV star, singer, and TV program host are also good occupations.

In the field of entertainment, people such as directors, celebrities, singers, and TV program hosts are all quite popular. Although the movie industry is facing challenges and many theaters are closing, famous actors are still very popular due to the presence of recordable media in homes. In the world of entertainment, new people come forth in large numbers. Performers that are relative unknowns one minute can get lucky and become superstars the next. The compensation is good not only for film actors, but also for television actors. Moreover, if an actor becomes very famous, he or she can work as the spokesperson for a brand. If a state governor and a celebrity appear on the same television channel, the audience will be more interested in hearing from the celebrity than from the governor. Generally speaking, superstars are more widely known than politicians. However, many actors live a difficult life before they come famous, although they must hide it in order to keep up their image.

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In the United States, if you invent something new you can apply for a patent; otherwise it can be copied by another person without any method of recourse available to the inventor. Many people spend their entire lives and all of their resources creating new inventions, and some of them will become rich through the success of their inventions. Even if an invention is great and successful, the inventor will not necessarily see the full benefits of it, one example being Edison and his discovery of electricity. In some cases, an invention cannot be commercialized and so the inventor does not get rich from it. Inventions ought to be patented in order to prevent others from copying them. However, patents are only valid for a restricted period of time, after which others can reproduce the invention without penalty. Therefore after an invention has been patented, the inventor should take advantage and turn the invention into a brand that can be promoted extensively before the time period has ended. If that is done successfully, the inventor can make a great deal of money. If the invention is not commercialized within the patent period, then there will be no way to profit from it. There are also some secret patents that are not released to the public, for example Coca-Cola. This type of patent allows the inventor to profit from the invention indefinitely.

In the past, the only consumers of brand name products were wealthy people, not common citizens. Nowadays, even laborers wish to appreciate brand name products. In some backward countries, common people buy brand name products to give as gifts to government officials, creating the saying: “Those who buy don’t use, those who use don’t buy.”

In prosperous economies, there are exquisite brand names for everything from houses, cars, watches, to handbags, and even restaurants. There are also name brand hotels. What were once targeted only towards wealthy people are now being sold to an increasing number of common consumers. In many backward countries that have a developing middle class after economic reforms, brand name products are becoming more accessible.

With the advancement of technology, there have been new occupations cropping up all the time, for example the occupations of pilot or astronaut, which have emerged as hero figures of sorts. One cannot only become famous in such occupations, but the money comes tumbling in as well. One cannot become an astronaut easily however. In addition to intense training that must be completed, the selection process is very difficult to pass as well. For these reasons, astronauts receive a great deal of respect from other members of society.

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In many countries after a regime has been established, it is only a short period of time before there is a coup d'état. The main reason is that those who established the government were not able to manage the country properly, and so were in turn overthrown just like the government that came before them. Government is like an unpredictable plaything. The trend in the modern world is towards economic competition; whoever can set the economy right is the famous statesman.

In the past, banks only accepted savings deposits and gave loans to businesses and some individuals. Now banks offer housing loans and mortgages, sell stocks, funds, credit cards, and business insurance etc. Banks could be described as having undergone huge reforms. The scope of banking operations is growing broader. In addition to traditional banking services such as savings accounts, loans, and currency exchange, a diverse group of new banking services are being developed. You can get a business or housing loan from the bank, you can invest money in funds through the bank, and you can get loans on credit from the bank. Banks have begun to recruit talent from many various fields. In the past, banks only employed managers and bank tellers. Now banks also hire financial specialists, stock brokers, insurance brokers, loan agents, and other types of employees. With the development of commercial society, banks have added numerous services to address new financial needs.

Another two good occupations are those of reporters and journalists. Television reporters have the chance to become hosts of news programs broadcasted during the most desirable time slots. Not only is there lots of money to be made, but there is also fame to be had. Advertising slots are the most expensive during such hours, and if the ratings of the program fall, then the host has to worry about being dismissed. Therefore the competition is intense, and every day such workers must have a firm grasp on the day's most important news stories. Hosts and reporters not only have to be very smart, but they must also be able to react quickly. Moreover they must establish good connections with people, have ample knowledge, and be hardworking. Only with an in-depth interview can a journalist write a proper and independent report.

Real estate brokers must complete training and take an official exam before receiving a license. The purpose of these regulations is to protect investors and home-owners. With the inflation of real estate prices in the past decade, real estate brokers have become especially prosperous, as well as real estate investors.

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Thirty nine: Beginning exercise at an advanced age is better than never exercising at all.

A friend came to the United States and worked hard in the restaurant business, having very little time for exercise. After eight or nine years, at about age fifty, he decided to learn to ski. He went to the slopes and rented a pair of skis, ski boots, and ski poles. To learn to ski, it was necessary to buy two tickets. One ticket was for the equipment and the other was for the ski lifts. There were free lessons for beginners. After donning his ski gear and starting to learn, he discovered it was very difficult to fall over. The ski coach taught students how to maintain balance, reduce speed, walk in skis, pick oneself up after falling, and other similar skills. After two hours of instruction, he had mastered the basic movements. After riding the ski lift up the slope to an elevation of about one thousand five hundred feet, he lost balance and fell upon leaving the ski lift. Altogether he must have fallen twenty or thirty times. Skiing down the mountain he had just ascended, he must have fallen another twenty or thirty times before finally reaching the base of the mountain. After resting to regain his strength, he took the ski lift to the top of the slope once more. His ability had improved, and he only fell four or five times the second time down. He had finally learned to maintain his balance while skiing. He skied for several more years, finding it very interesting, but he eventually had a knee injury that required surgery. People who are getting on in their years and decide to learn to ski need to have determination and patience. Such people will find it very exhausting to learn.

After working the in restaurant business for several decades as a cook or manager, I never felt exhausted even though I was working hard all day. However, just a few months after stopping work, I began to feel lethargic. After learning T'ai Chi and tennis for a while, I began to feel my energy returning. I never experienced any more problems with my energy level.

However, if I stopped exercising, I would begin to experience the same problems. After exercising, I would feel reinvigorated. Sports such as skiing and tennis are more intense forms of exercise, and sometimes are not suitable for elderly people. The best choices of exercise are things like table tennis and golf, which are relatively relaxing in comparison. Exercise is very beneficial to one's health. However, the cost of exercising is very high in the United States. Activities such as going to the gym or learning to swim cost money. For sports such as skiing, golfing, and fishing, the cost of equipment can be very high. Of course there are ways of economizing, such as buying more basic equipment.

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People living in poor countries work hard just to satisfy their basic needs, and lack the means to exercise. Of course, one can only pay attention to health and exercise once those basic needs are met. Sports and exercise are very developed nowadays. Everyone can watch athletic competitions for free on television, and can pay a little money to see them in person if they choose. In China's past, people's lives were very difficult and their athletic ability suffered because of it. Now with improving standards of living, the athletic ability of the Chinese people is also gradually improving. The United States is a country with many sports champions, and is already a sports powerhouse. China has already begun to achieve success in this field, and is proving wrong the notion that East Asian countries cannot compete in sports.

Golf is a sport in which one hits a small white ball with a club, and is growing in popularity. New golf courses are being opened throughout the world, and the sport is developing quickly. In golf you work your entire body, and the movements are subtle. The sport is appropriate for people of all ages, both male and female. Of course, familiarity with the basic movements is necessary before playing. Only after a few lessons will you be able to play. A game of golf generally consists of eighteen holes and takes about four hours. A game can be over in half an hour in most other sports. The long duration and whole-body nature of the exercise golf provides is of benefit to the body. Moreover, when playing golf it is not necessary to compete with another person. In many small countries, golf is an expensive hobby due to the large amounts of land a golf course requires, and the resulting high fees. However in the United States, the sport of golf has already been popularized amongst the masses, and fees are small. Senior citizens are only required to pay half of the usual ticket price, which is usually just a little over ten dollars.

Opening up ski slopes for skiing requires a lot of investment. In the United States, Canada, and Europe, skiing is very popular. Creating ski slopes requires making changes to mountain slopes already present, and so a great deal of work and investment is necessary. Skiing is a popular winter sport for people living in North America and Northern Europe. Learning to ski is easiest if it is done early. Ski resorts often provide free lessons in basic skiing skills, such as getting up after falling, slowing down, and maintaining balance, to young children of elementary school age.

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There are many elite athletes in the United States, and they are often successful in world championships, competing and winning at the highest levels. Sports and athletic gear businesses will often pay such athletes to promote their products in advertisements. The performance of the American women's national volleyball team is even more outstanding than the men's, and so the women's team is more popular and well known. Soccer is popular throughout the world, but has been slow to develop in the United States due to other popular sports such as football. However, soccer is gradually becoming more and more popular in the United States. Soccer is already very popular in South America, Europe, and Asia. Brazil's national soccer team is particularly successful and famous, often winning the World Cup. Hong Kong has also produced famous soccer players, such as Lee Wai Tong. He originally was a famous soccer player, and eventually became the host of a television program devoted to soccer. His performance in soccer tournaments made him a superstar, and he received a great deal of respect, earning the nickname "Soccer King".

Ping pong is a game that requires skill and nimbleness, and does not require much investment. All that is needed is a ping pong table, a ball, and two paddles. Two or four people can play a game. The first American sports team to visit China for a competition was the American ping pong team. The American team was of course not as good as the Chinese team, but the competition was friendly and broke the ice on relations between the two countries, leading to it being called "ping pong diplomacy".

Forty: Winning a sporting championship can be astonishing.

The Olympics is the world's largest athletic competition. The United States has always been successful in Olympic competitions and has competed at very high standards. Each time, the United States has won numerous medals. However, the United States is not like other countries because there are no city-wide, state-wide, or national competitions. Sports competitions are usually dedicated to a single sport, for example various ball games, ice skating, or swimming. If an athlete is a champion in one of these competitions, then he or she has a good chance of becoming the world champion. So these competitions are grand occasions. Those who compete and win not only get to ascend the stage and accept the prize, but also receive the attention of the millions of people watching on television.

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Water sports can be divided into swimming and diving. These two events are very specialized. People who swim well do not necessarily swim quickly. To compete, one must swim very fast. In diving, there are three different types of diving event: the ten meter platform dive, single person dive, and two person dive. The quality of the performance is rated by judges. Sometimes in order to win, luck is needed in addition to talent. In swimming the different styles are breast stroke, freestyle, and backstroke. Short distance swims are one hundred yards, middle distances are two hundred yards, and long distances are four hundred yards. There are also water ballet competitions. Generally speaking, female athletes who compete in water sports have more graceful movements, and the results of the competitions are decided by judges. Even though performances are only several minutes, the competitors must train many years.

Since the majority of Americans work white collar jobs, such as administration work, and very rarely do physical labor, their health is very often bad. Since there is little physical exertion in their jobs, Americans often go to the gym in their free time, and as a result there are many different types of exercise equipment. Gyms will often find models with developed physiques to advertise their gyms in order to attract greater numbers of members, and therefore earn more profit.

Often people buy exercise equipment and only use it a few times before giving it up. Gyms are good because they provide personal trainers to help people, and there are people to chat to, and the monthly price for a membership is just several tens of dollars to one hundred dollars. In addition to getting fit, members can meet new people.

Horse-racing and dog-racing should also be mentioned even though they involve animals competing rather than humans. These competitions are used as a lottery of sorts, but can be considered a type of sport. Human nature is very strange; if you go to the racetrack and do not bet anything, then the competition will be meaningless to you. However if you do bet, then you will find it exhilarating. In the United States, every state has a horse racetrack, but only a few states have dog racetracks.