Career Paths: Air Force is a new educational resource for people who are serving or intending to serve as professionals in the aerial division of the armed forces, and who want to improve their English communication skills in a profession-oriented environment.

Incorporating career-specific vocabulary and contexts, each unit offers step-by-step instruction that immerses students in the key language components. Career Paths: Air Force addresses topics including: the parts, types and functions of aircraft; air force organization and training; the range of air force career specializations; the types and characteristics of air force weaponry; air force tactics and strategy; and many more.

The series is organized into three levels of difficulty and offers over 500 vocabulary terms and phrases. Every unit includes a test of reading comprehension, vocabulary, and listening skills, and leads students through written exercises and oral production.

Included Features:
- A variety of realistic reading passages
- Career-specific dialogues
- 45 reading and listening comprehension checks
- Over 400 vocabulary terms and phrases
- Guided speaking and writing exercises
- Complete glossary of terms and phrases

The Teacher’s Guide contains detailed lesson plans, a full answer key and audio scripts.

The audio CDs contain all recorded material.
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<th>Function</th>
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<tr>
<td>1</td>
<td>Parts of an Airplane</td>
<td>aileron, cockpit, elevator, fixed wing, flap, fuselage, horizontal stabilizer, landing gear, nose, rudder, tail, turbine engine, turboprop, vertical stabilizer, wing</td>
<td>Identifying objects</td>
</tr>
<tr>
<td>2</td>
<td>Parts of a Helicopter</td>
<td>cowl, mast, motor mount, rotary-wing aircraft, rotor blade, skid, stabilizer bar, swashplate, synchronized elevator, tail boom, tail rotor, tail skid</td>
<td>Showing agreement</td>
</tr>
<tr>
<td>3</td>
<td>Spatial Relationships</td>
<td>above, ascend, axis, below, descend, dive, maneuver, pitch, rise, roll, yaw</td>
<td>Giving advice</td>
</tr>
<tr>
<td>4</td>
<td>Radio Communication</td>
<td>affirmative, connection, negative, over, phonetic alphabet, proword, radio communication, roger, say again, wilco</td>
<td>Asking for repetition (radio)</td>
</tr>
<tr>
<td>5</td>
<td>Rank Structure</td>
<td>airmentier, captain, colonel, company-grade officer, enlisted, field-grade officer, general, lieutenant, major, NCO tier, rank, Senior NCO Tier, flag officer</td>
<td>Greetings</td>
</tr>
<tr>
<td>6</td>
<td>Base Structures</td>
<td>BX, consolidateds upport building, dormitory, family housing, law enforcement armory, officer’s club, ommissionary, pass and registration office</td>
<td>Offering suggestions</td>
</tr>
<tr>
<td>7</td>
<td>NATO Organization</td>
<td>ACO, ACT, AOR, JFC, JFTC, JWC, military committee, NATO, SACEUR, SACLANT, SHAPE, NURC</td>
<td>Confirming information</td>
</tr>
<tr>
<td>8</td>
<td>Military Organization</td>
<td>flight, group, maintenance group, medical group, mission support group, operations group, squadron, subcommand, wing, wing staff</td>
<td>Expressing possibility</td>
</tr>
<tr>
<td>9</td>
<td>Training</td>
<td>AFSC, Basic Military Training, basic situational awareness, CBRNE, defensive fighting positions, entry control point, expeditionary training, IED familiarization, technical training</td>
<td>Talking about certainty</td>
</tr>
<tr>
<td>10</td>
<td>Uniforms</td>
<td>Airman Battle Uniform, flight suit, headgear, insignia, Mess Dress, Service Dress, Utility Uniform</td>
<td>Defining / Explaining</td>
</tr>
<tr>
<td>11</td>
<td>Pilot</td>
<td>airlift, contact flight, ENJPT, formation flight, Initial Flight Screening, instrument flight, low-level flight, SUPT, tanker</td>
<td>Emphasizing difficulty</td>
</tr>
<tr>
<td>12</td>
<td>Air Traffic Control</td>
<td>Air Traffic Controller, airfield, airspeed, altitude, certify, compute, direct, maintain, plot, relay, runway, stress, taxi</td>
<td>Checking information</td>
</tr>
<tr>
<td>13</td>
<td>Maintenance</td>
<td>condition, fuel, fully mission capable, functional, hydraulic fluid, inspection, maintenance, preventative, repair</td>
<td>Offering solutions</td>
</tr>
<tr>
<td>14</td>
<td>Pararescue</td>
<td>CPR, injured, paramedic, pararescue, Physical Ability and Stamina Test, PJs, proficient, scuba, search and rescue, treat</td>
<td>Checking if someone understands you</td>
</tr>
<tr>
<td>15</td>
<td>Weather</td>
<td>analyze, atmosphere, atmospheric pressure, cloud, computer model, fog, forecast, front, ground, gust, hail, hub, icing, lightning, meteorology, oceanography, precipitation, predict, snow, temperature, thunderstorm, turbulence, windspeed</td>
<td>Making comparisons</td>
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<tr>
<td>1</td>
<td>The Fighter Jet</td>
<td>afterburner, cannon, canopy, countermeasures, electro-optical targeting system, fly-by-wire controls, Mach, missile, thrust nozzles, turbofan, weapons bay</td>
<td>Asking for repetition</td>
</tr>
<tr>
<td>2</td>
<td>UAVs</td>
<td>air interdiction, CAS, decoy, drone, dummy, expendable, ISR, munitions, onboard, recoverable, remote control, simulate, target, target acquisition, UAV</td>
<td>Getting someone's attention</td>
</tr>
<tr>
<td>3</td>
<td>The Bomber</td>
<td>blended-wing body, bomb bay, defensive weapon, fighter-bomber, long-range strike mission, strategic bomber, strategic target, swept-wing body, tactical bomber, tactical target</td>
<td>Confirming</td>
</tr>
<tr>
<td>4</td>
<td>Cargo Airplanes</td>
<td>aeromedical evacuation, airdrop, airland, airlift, airlifter, cargo, deployment, intercontinental, military operations other than war, pallet, redeployment, sustainment</td>
<td>Talking about figures</td>
</tr>
<tr>
<td>5</td>
<td>Gunships</td>
<td>air superiority, area saturation, banking turn, convoy, escort, force protection, gunship, side-firing, strafe, surgical firepower, target of opportunity</td>
<td>Expressing opinion</td>
</tr>
<tr>
<td>6</td>
<td>Tankers</td>
<td>aerial refueling boom, automatic load alleviation system, boom operator, drogue, flying boom, independent disconnect system, multi-point refueling system, probe, refuel, tanker, wingtip pod</td>
<td>Showing agreement</td>
</tr>
<tr>
<td>7</td>
<td>Reconnaissance Aircraft</td>
<td>airborne battle management, Command and Control, radar, radar dome, reconnaissance, rotodome, strut, surveillance, theater, wingspan</td>
<td>Describing features</td>
</tr>
<tr>
<td>8</td>
<td>Helicopters</td>
<td>armor plating, Combat Search and Rescue, folding rotor blades, forward looking infrared system, hoist, hover, lift capacity, low-level operations, machine guns, resupply, Search and Rescue, special operations</td>
<td>Checking understanding</td>
</tr>
<tr>
<td>9</td>
<td>Cruise Missiles</td>
<td>automatic target recognition, Digital Scene-Mapping Area Correlator, Global Positioning System, inertial navigation system, missile, non-ballistic, nuclear-capable, tail assembly, Terrain Contour Matching, warhead</td>
<td>Comparing and contrasting</td>
</tr>
<tr>
<td>10</td>
<td>Suppression of Enemy Air Defense</td>
<td>AGM-HARM missile, air defense system, Air Launched Anti-Radiation Missile, air-to-surface, anti-aircraft artillery, anti-radiation missile (ARM), cluster bombs, ground-based radar, jammer, soft target, Suppression of Enemy Air Defense</td>
<td>Making assumptions</td>
</tr>
<tr>
<td>11</td>
<td>Humanitarian Operations</td>
<td>disaster relief, dislocated civilian, food distribution, humanitarian, International Organization, Medical Civic Action Program, medical staff, non-government organization, Noncombatant Evacuation Order, refugee</td>
<td>Emphasizing a point</td>
</tr>
<tr>
<td>12</td>
<td>Counterterrorism Operations</td>
<td>civilian, collateral damage, counter-insurgency, counterterrorism, extraction, Foreign Internal Defense, heliborne, host nation, insertion, preemptive, strike, surveillance platform, targeted elimination</td>
<td>Making suggestions</td>
</tr>
<tr>
<td>14</td>
<td>Small Scale Contingencies</td>
<td>escalate, force structure, limited intervention, localized conflict, major theater war, mission creep, no-fly zone, regional stability, show of force, Small Scale Contingency, sortie</td>
<td>Giving a warning</td>
</tr>
<tr>
<td>15</td>
<td>Close Air Support</td>
<td>close air support, danger close, detailed integration, Forward Air Controller, friendly forces, hostile target, Joint Terminal Attack Controller, maximum, proximity, Tactical Air Control Party</td>
<td>Confirming information</td>
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<th>Function</th>
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<tbody>
<tr>
<td>1</td>
<td>Fighter Unit</td>
<td>ace, advance, battle honor, battle zone, bring down, dissimilar tactics, hit-and-run, kill, strategy, sortie</td>
<td>Eliciting more information</td>
</tr>
<tr>
<td>2</td>
<td>Bomber Unit</td>
<td>air support, aircraft carrier, airfield, B-25 Mitchell, B-26 Marauder, campaign, combat launch, Doolittle Raid, fortified, modified, morale, retaliatory</td>
<td>Giving an example</td>
</tr>
<tr>
<td>3</td>
<td>Search and Rescue Unit</td>
<td>Air Force Cross, combat controller, covering fire, CSAR Team, down, incident site, pararescue technician, relief convoy, RPG, Silver Star, special tactics squadron, triage point</td>
<td>Requesting information</td>
</tr>
<tr>
<td>4</td>
<td>Targets</td>
<td>area target, contact, danger close, degree of protection, effects-based targeting, emerging target, JSTARS, number of elements, positive identification, target-rich environment</td>
<td>Showing understanding</td>
</tr>
<tr>
<td>5</td>
<td>Air-to-Air Missiles</td>
<td>Air-to-Air Missile, beyond-visual range AAM, detonate, head on, heat-seeking, maximum engagement range, Medium Range AAM, proximity fuse, Short Range AAM, Within-Visual Range AAM</td>
<td>Giving permission</td>
</tr>
<tr>
<td>6</td>
<td>Air-to-Surface Missiles</td>
<td>AGM-65 Maverick, Air-to-Ground, Air-to-Surface, anti-ship, anti-tank, delayed fuse, evasive action, hard target, launch-and-leave, modular design, probability of damage, standoff distance, gunline</td>
<td>Describing visual information</td>
</tr>
<tr>
<td>7</td>
<td>Surface-to-Air Missiles</td>
<td>armored vehicle, command, decoy flares, infrared missiles, laser guided, launcher, line-of-sight, Man-Portable Air-Defense System, range, SAM, shoulder-launched</td>
<td>Giving advice</td>
</tr>
<tr>
<td>8</td>
<td>Cannons</td>
<td>armor piercing, caliber, cannon, cartridge, gatling gun, high-explosive dual purpose, muzzle velocity, overheat, rate of fire, recoil adapter, rounds per minute</td>
<td>Requesting advice</td>
</tr>
<tr>
<td>9</td>
<td>Anti-Ship and Anti-Submarine</td>
<td>AGM-84 Harpoon, anti-ship, anti-submarine, depth charge, Laser Detection And Ranging, Magnetic Anomaly Detector, midcourse guidance, mine, sea-skimming, surface ship, torpedo</td>
<td>Talking about possibility</td>
</tr>
<tr>
<td>10</td>
<td>Centers of Gravity</td>
<td>attrition, Center of Gravity, critical vulnerability, decisive point, fielded forces, infrastructure, law of armed conflict, leadership, operational processes, payoff, popular will, strategic, weapons cache</td>
<td>Estimating</td>
</tr>
<tr>
<td>11</td>
<td>Surprise Attack</td>
<td>asymmetric force strategy, decisive maneuver, direct effect, flexibility, force-on-force engagement, freedom of action, indirect effect, parallel operations, precision employment, range, surprise, time on target</td>
<td>Describing results</td>
</tr>
<tr>
<td>12</td>
<td>Strategic Attack</td>
<td>achieve, avoid sequential fight, effects-based, fighter sweep, master attack list, offensive counter air, operational level, operational objective, strategic attack, strategic objective, tactical-level</td>
<td>Describing cause and effect</td>
</tr>
<tr>
<td>13</td>
<td>Psychological Effects</td>
<td>acquiesce, adversary, broadcast, coerce, diplomatic initiative, incite, jam, political climate, propaganda, psychological effect, psyop, reduce, shock and awe, will to fight</td>
<td>Agreeing / Disagreeing</td>
</tr>
<tr>
<td>14</td>
<td>Joint Air Attack Team</td>
<td>Air Tasking Order, battlefield coordination detachment, coordinating measures, fire support, forward air controller, JAAT, jeopardize, JOAC, subordinate, theater airlift</td>
<td>Seeking permission</td>
</tr>
<tr>
<td>15</td>
<td>Phases of Attack</td>
<td>air parity, air superiority, battle damage assessment, combat assessment, commander-in-chief, execute, Joint Direct Attack Munition, measures of merit, mission flow, prioritize, target set</td>
<td>Asking for explanation</td>
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Military leaders seeking air superiority will turn to one type of aircraft: the fighter jet. Fighters are small, highly maneuverable, high-speed aircraft equipped with powerful weapons for air-to-air combat. Fighter pilots sit at the front of the aircraft in the cockpit beneath a transparent canopy. A fighter jet’s fuselage holds one or more weapons bays containing bombs or missiles. Fighter jet engines use thrust nozzles to constrict airflow and cause jet propulsion that reaches Mach speeds. Many fighter jets have turbofan engines for quieter, more efficient flight. Most have an afterburner for additional thrust during takeoff and in critical air-combat situations.

Modern fighter jets are equipped with sophisticated weaponry and flight technology. Fly-by-wire controls automatically react to atmospheric conditions without pilot input. A front-firing cannon with several hundred rounds can destroy enemy aircraft. Electro-optical targeting systems track targets with deadly precision, and self defense systems enable pilots to apply countermeasures against incoming missiles. These characteristics make fighter jets the primary weapons for maintaining air superiority in military conflicts.

Comprehension

1 Read, listen, and answer the questions.

1 What operations do fighters complete? ............................................................................................................

2 What increases fighter speeds in combat? ...........................................................................................................

3 What weapons can fighters use? ......................................................................................................................
Vocabulary

2 Label the parts of a fighter jet shown in each picture.

1 .................................................
2 .................................................
3 .................................................
4 .................................................
5 .................................................

3 Match the definitions (A-F) to the correct terms (1-6).

1 __ Mach
2 __ afterburner
3 __ thrust nozzle
4 __ countermeasure
5 __ fly-by-wire control
6 __ electro-optical targeting system

A a part of a jet engine that increases pressure
B a unit of speed measurement
C an electronic system of automatic flight control
D a piece of equipment that detects and tracks targets
E a part of a jet engine that creates extra thrust
F a device that prevents weapons from striking targets

Listening

4 Listen to an instructor testing a pilot in flight school. Complete the notes on the aircraft that they discuss.

Aircraft 1:
MiG 35
Speed:
(1) ............................
Service Ceiling:
(2) ............................. meters

Aircraft 2:
(3) ............................
Speed:
(4) ............................

5 Listen again, and mark the statements as true (T) or false (F). Correct the false statements.

1 __ Neither aircraft discussed can fly above the speed of sound.

2 __ An F-35 Lightning II is faster than a MiG-35.

3 __ The MiG-35 is equipped with afterburners.

Speaking

6 Describe the capabilities and weapons systems of modern fighters.
Comprehension
1 Read, listen, and mark the statements as true (T) or false (F). Correct the false statements.

1 __ Maintenance personnel check aircraft before and after every flight.
   ....................................................................

2 __ Maintenance personnel repair problems during flights.
   ....................................................................

3 __ Maintenance personnel receive training before deployment.
   ....................................................................

Vocabulary
2 Complete the word with the same meaning as the underlined part.

1 What is the state of that MH-60?
   _ o _ _ t _ n

2 The aircraft failed an evaluation.
   _ _ P _ _ _

3 Is that rotor working properly?
   _ _ c _ _ n _

4 The rudder needs to be fixed.
   _ e _ _ l _

3 Complete the sentences with the terms below.

fully mission capable preventative maintenance hydraulic fluid fuel

1 Aircraft that are not ........................................... will not be cleared for flight.
2 ......................................... allows pilots to adjust flaps without struggling.
3 ....................................... inspections ensure that problems are fixed before a flight.
4 Tankers provide .................................... in-flight.
5 Good ................................. prevents accidents.

Listening
4 Listen to two maintenance personnel. Complete their report as you listen.

C-130 CA-122 is not 1) .......................................... . There is a 2) ........................................ in the 3) ................................................................. . We could try to 4) ......................................... it, but that might not fix the problem. I recommend that we 5) .................................................. the line. That will ensure the aircraft is safe to fly.

Speaking
5 You are a maintenance worker. Explain why an aircraft is not operationally ready.
“That others may live”: that is the motto of the Air Force’s Special Operations pararescue technicians. These highly-trained experts, known as PJs, conduct personnel recovery operations in combat zones. They often put their own lives at risk. They also perform search and rescue (SAR) operations for civilians. No matter where someone is lost, PJs can reach them. They are even proficient in scuba diving for underwater operations. Often, troops needing rescue are also injured. For that reason, PJs are also excellent paramedics. They can treat battle wounds and provide CPR.

But PJs must be in excellent physical condition. Before becoming a PJ, airmen must pass a difficult test. Only the strongest airmen pass the Physical Ability and Stamina Test (PAST).

Comprehension

1. What is the main responsibility of a pararescue technician?
   A. engaging in combat
   B. providing CPR training
   C. conducting personnel recovery

2. What type of actions are PJs NOT trained for?
   A. underwater rescues
   B. treating injuries
   C. flying aircraft

3. What can you infer about PJs?
   A. They only conduct military rescues.
   B. They must be stronger than most airmen.
   C. They can provide long-term medical care.
operational level combat [N-U-U12] fighting to achieve the goals of a military operation  
operational objective [N-C-U12] the predetermined goal of a military operation  
operational processes [N-C-U10] systems that allow military groups to perform various actions such as communicating, transporting troops and carrying out missions  
overheat [V-U8] become too hot  
parallel operations [N-C-U11] simultaneous attacks on multiple targets for the purpose of overwhelming the enemy  
pararescue technician [N-C-U3] a special operations officer trained to conduct CSAR operations  
payoff [N-U-U10] the beneficial result of a military operation  
phase [N-C-U15] a period of an operation when large groups of forces engage in similar or supportive activities  
political climate [N-C-U13] the current political situation in a region  
popular will [N-U-U10] the interest or desire of the general population in a particular area  
positive identification [N-C-U4] the definite recognition of a target as an enemy  
precision employment [N-U-U11] the direct use of force against a target  
prioritize [V-T-U15] decide what is most important  
probability of damage [N-U-U6] the likelihood that a specific object will be damaged  
propaganda [N-U-U13] information that is distributed to promote an idea  
proximity fuse [N-C-U5] a fuse that detonates when a missile is within a specified distance from a target  
psychological effect [N-C-U13] the effect that something has on people’s minds and emotions  
psychOps [N-C-U13] military and nonmilitary activities that cause psychological effects  
range [N-C-U7] the distance that a missile can travel  
range [N-U-U11] the extent of a military unit’s capabilities  
rate of fire [N-C-U8] the speed at which a weapon discharges its ammunition  
recoil adapter [N-C-U8] a device that absorbs the backward momentum of a weapon when it is fired  
relief convoy [N-C-U3] a set of ground vehicles that resupply or rescue ground forces  
retaliatory [ADJ-U2] done to avenge a previous action  
rocket-propelled grenade (RPG) [N-C-U3] a shoulder-launched weapon that fires a rocket with an explosive warhead  
rounds per minute [N-C-U8] the number of bullets or shells that a weapon can discharge in one minute  
sea skimming [N-U-U9] an anti-ship missile technique to avoid radar detection by flying close to the water  
sequential fight [N-U-U12] the act of fighting through multiple levels of an opponent’s forces  
shock and awe [N-U-U13] a type of psyop that overwhelms an enemy by displaying massive amounts of firepower  
Short Range AAM [N-PROP-U5] a missile with a range of 1000 km  
shoulder-launched [ADJ-U7] fired while held on someone’s shoulder  
Silver Star [N-PROP-U3] the third-highest military decoration in the US armed forces  
sortie [N-C-U1] an operational flight taken by a single aircraft  
Special Tactics Squadron [N-C-U3] a group of highly trained personnel that conduct extremely difficult and dangerous operations  
standoff distance [N-C-U6] the safe distance away from a missile explosion  
strategic [ADJ-U10] interfering with a vital part of an enemy’s defense system  
strategic attack [N-C-U12] a military operation designed to gain a disproportionate advantage over an enemy  
strategic objective [N-C-U12] the predetermined goal of a strategic attack  
strategy [N-C-U1] a method  
subordinate [ADJ-U14] of lesser rank  
surface ship [N-C-U9] a ship that only travels on the water’s surface  
Surface-to-Air Missile [N-C-U7] a missile that targets aircraft and is launched from the ground  
surprise [N-U-U11] being unexpected  
target development [N-U-U15] the process of looking at potential targets to decide what action is needed to meet operational objectives  
target-rich environment [N-C-U4] an area that has multiple potential targets  
target set [N-C-U15] a group of targets  
theater airlift [N-C-U14] the use of aircraft to transport personnel into or out of a combat area  
Time on Target [N-U-U1] a technique of firing weapons so that all rounds reach the target at the same time  
torpedo [N-C-U9] an underwater self-propelled explosive  
triage point [N-C-U3] a location where medical personnel assess the needs of the wounded  
weaponeering assessment [N-U-U15] the process of deciding which weapons should be used to meet operational objectives  
weapons cache [N-C-U10] a hidden collection of weapons  
will to fight [N-U-U13] the motivation to engage in warfare  
Within-Visual-Range AAM [N-PROP-U5] a missile with a range of 37 km
Career Paths: Air Force is a new educational resource for people who are serving or intending to serve as professionals in the aerial division of the armed forces, and who want to improve their English communication skills in a profession-oriented environment.

Incorporating career-specific vocabulary and contexts, each unit offers step-by-step instruction that immerses students in the key language components. Career Paths: Air Force addresses topics including: the parts, types and functions of aircraft; air force organization and training; the range of air force career specializations; the types and characteristics of air force weaponry; air force tactics and strategy; and many more.

The series is organized into three levels of difficulty and offers over 500 vocabulary terms and phrases. Every unit includes a test of reading comprehension, vocabulary, and listening skills, and leads students through written exercises and oral production.

Included Features:
- A variety of realistic reading passages
- Career-specific dialogues
- 45 reading and listening comprehension checks
- Over 400 vocabulary terms and phrases
- Guided speaking and writing exercises
- Complete glossary of terms and phrases

The Teacher's Guide contains detailed lesson plans, a full answer key and audio scripts.

The audio CDs contain all recorded material.