**Unit 4 . Lesson 3.**

**Conversation practice**

*Learn the new vocabulary:*

|  |  |  |
| --- | --- | --- |
| lubricate | [‘lu:brıkeıt] | смазывать |
| maintenance base | [‘meıntənəns beıs] | техническая база (АТБ) |
| minor | [‘maınə] | незначительный |
| observe (watch) | [əb’sə:v] [wot∫] | наблюдать |
| operate | [‘opəreıt] | управлять, действовать, работать |
| operation | [,opə’reı∫n] | действие, работа |
| outside | [‘autsaıd] | наружный, внешний |
| overhaul | [‘ouvəho:l] | капремонт |
| performance | [pə’fo:məns] | работа, характеристика |
| platform | [‘plætfo:m] | платформа, лестница |
| pre-flight | [‘prı:,flaıt] | предполетный |
| properly | [‘propəlı] | должным образом |
| reading | [‘rı:dıŋ] | показание (прибора) |
| regulate | [‘regjuleıt] | регулировать |
| repair (fix) | [rı’pεə] | ремонтировать, ремонт |
| reservoir | [‘rezəvwa:] | резервуар, хранилище |
| retract | [rı’trækt] | убирать (шасси) |
| routine | [ru:’tı:n] | повседневный |
| shock strut | [strлt] | амортизационная стойка |
| tension | [‘ten∫ən] | напряжение, натяжение |
| tyre (tire) | [‘taıə] | шина, покрышка |
| wiring | [‘waıərıŋ] | электропроводка |
| What kind of hose is it? | Какой это шланг? |
| What type of aircraft is it? | Какой это тип самолета? |

*Read, translate and learn the text:*

**MAINTENANCE TECHNICIAN**

The flight engineers (aircraft maintenance mechanics) are members of flight crew. All mechanical and electrical devices aboard planes must work properly.

Their duties are: routine servicing, maintenance of aircraft, determination and repair of faults, maintaining or overhauling aircraft and components.

They must inspect, repair and service airframe, engines, equipment, instruments and radio.

Before the flight the flight engineer makes pre-flight inspection on apron. He must check maintenance records. He has to check the outside parts of the plane. He may locate any faulty equipment. He must call a mechanic who has to make repairs. He inflates tires, fills fuel tanks and oil reservoirs, lubricates fittings; corrects fluid level in shock strut of landing gear, checks tension of controls, cleans mechanical parts with compressed air and cleaning fluid. He may replace lights and faulty wiring; he may clean off engines. He checks main parts that affect the operation of the aircraft using many tools, ladders or platforms.

He must start up and run up the engines. In flight he is to assist the captain. He must watch (observe) instrument readings, he must check functioning of electrical systems. He is to adjust the electrical power. He is to watch engine instruments and regulate the performance of the engines, air conditioning and other equipment. He has to keep records of engine performance and fuel consumption. He is to lower and retract the landing gear. He must stop the engines.

He is to report any mechanical problems to the captain; he may have to make some emergency repairs in flight or some minor repairs on the ground.

**Remember *New language items:***

What time is it? = What's the time?

It's 5 o'clock (sharp). It's 5 past 5.

It's 10 past 5. It's a quarter past 5.

It's 20 past 5. It's 25 past 5.

It's half past 5. It's 25 to 6.

It's 20 to 6. It's a quarter to 6.

It's 10 to 6. It's 5 to 6.

It's 6.

What's the exact time by your watch?

 Can you tell me the exact time, please?

1.55 - 5 (minutes) to 2. 1.05 - 5 (minutes) past 1.

1.50 - 10 to 2. 1.10 - 10 past 1.

1.45 - a quarter to 2. 1.15 - a quarter past 1.

1.40 - 20 to 2. 1.20 - 20 past 1.

1.35 - 25 to 2. 1.25 - 25 past 1.

1.30 - half past 1.

 My watch is some seconds slow (fast).

 My watch is 5 minutes slow (fast).

 I can't tell you the exact time.

I'm sorry, I'm some minutes late. — OK, that's all right.

P.M. — post meridian ['poust mə'rıdıən] от 12 ч дня

A.M. — ante meridian ['æntı mə'rıdıən] от 24 ч до 12 ч дня

at 5.30 p.m. at 11.45 a.m.

We take off at 10.30 a.m.

When does your flight depart? – It departs at 9.

When does your flight arrive? – It arrives at 11.

How long does your flight last? – It lasts 2 hours.

How long does loading last? – It lasts an hour.

1. ***Answer the following questions:***
	* What are you to do before the flight?
	* Who is to check if there is enough fuel in the tanks?
	* Who makes pre-flight checks?
	* Who controls the oil and fuel pressure?
	* Who do you inform about any failures?
	* Is it necessary to inspect the main parts after landing?

**UNIT 4. Lesson 4.**

**Glossary *Learn the special vocabulary:***

|  |  |  |
| --- | --- | --- |
| aid | [eıd] | помогать; помощь, средство |
| copy | [‘kopı] | экземпляр; записывать |
| heat | [hı:t] | обогревать |
| heating | [hı:tıŋ] | обогрев |
| fail | [feıl] | отказывать, выходить из строя |
| first aid kit | [fə:st] | аптечка |
| failure | [‘feıljə] | отказ, неисправность |
| free | [frı:] | освобождать, свободный |
| galley | [‘gælı] | кухня (на борту) |
| galley-pantry | [‘gælı’pæntrı] | буфет |
| gauge (gage) | [geıdʒ] | датчик, прибор |
| oil quantity gage | [‘kwontıtı] | масломанометр |
| key | [kı:] | ключ (дверной) |
| mail | [meıl] | почта |
| fill | [fıl] | наполнять |
| refill |  | дозаправлять |
| oil shock absorber |  | масляный амортизатор |
| overheat | [,ouvə’hı:t] | перегревать |
| overheating |  | перегрев |
| trouble | [trлbl] | неисправность |

*Read, translate and learn the text:*

 We need clean water. We have engine failure. We have brake failure. We have oil cooler failure. We have fuel pump failure. I have to fill the shock absorber with nitrogen. Brakes may fail. Any system may fail. I need two copies. Give me the first and the second copies. Brakes may overheat. I must watch the engine gages. There is much mail in the plane. I have no first aid kit. We have trouble with shock absorber, the fluid leaks away. There is a leakage in the oil system. We have oil leak No.2 engine. We have hand pump failure. Who has a first aid kit? What kind of engines are these? What kind of valve is it? Engines may fail. We may have any failure in flight.

*Translate into English:*

Аптечка Экземпляр Перегревать Нуждаться

Отказывать Неисправность Помогать Ключ

Убирать Датчик Почта Освобождать

1. На самолете должен быть набор инструментов.
2. У нас могут быть проблемы в полете.
3. Экипаж должен быть в самолете.
4. Бортинженер может выполнить незначительный ремонт в полете.
5. Проверьте тормоза, у нас неисправность тормозов.
6. Я могу помочь вам.

 Перегрев, отказ, использовать, проверять, открывать люк, закрывать, заменять тормоза, посылать, предохранитель, топливный шланг, подъемник, агрегат, насос, сливной кран, регулировать, соединять, неисправность, выходить из строя, отсоединять, соединительный шланг, набор инструментов, кислород, азот, сливная пробка, масло, топливо, дозаправка.

**UNIT 4. Lesson 5.**

*Translate into English:*

 Источник питания, смазка, жидкость, капот, топливный бак, утечка кислорода, течь масла, колесо, радиатор, руль высоты, двигатель, шасси, убирать шасси, датчик, выпускать, гондола, давление, запускать двигатели, состояние, трещина, бортжурнал, охлаждать, наполнять, вставлять, хвостовая часть, амортизатор, оборудование, фюзеляж, опробовать двигатели, аптечка.

1. Проверьте тормоза.
2. Замените этот агрегат.
3. Откройте сливной кран.
4. Отрегулируйте тормоза.
5. Отсоедините топливный шланг.
6. Нам необходима дозаправка, у нас мало топлива.
7. У нас проблема, у нас течь масла.
8. Мы должны заполнить топливные баки.
9. Вставьте шланг в горловину.
10. Я должен очистить шасси от масла.