

MICROLIGHT PPL COURSE GROUND SCHOOL TRAINING SYLLABUS

PRINCIPLES OF FLIGHT

- PHYSICS AND MECHANICS
- AEROFOILS, LIFT AND DRAG
- FLYING CONTROLS
- EQUILIBRIUM
- STABILITY
- THE STALL
- THE SPIN
- TURNING FLIGHT
- LOAD FACTOR AND MANOEUVRES
- AIRCRAFT PERFORMANCE
- WEIGHT AND BALANCE
- THE PROPELLER

AVIATION LAW

- THE AIR NAVIGATION ORDER
- AIRCRAFT DOCUMENTATION
- PERMITS TO FLY AND EXEMPTIONS
- AIRCRAFT EQUIPMENT
- AIRCRAFT WEIGHT SCHEDULE
- GRANT AND RENEWAL OF LICENCES TO MEMBERS OF FLIGHT CREW
- PRIVILEGES OF THE PRIVATE PILOT'S LICENCE
- RATINGS - CONDITIONS OF ISSUE
- LICENCES AND RATINGS - RENEWAL
- PERSONAL FLYING LOG BOOK
- INSTRUCTION IN FLYING
- PRE-FLIGHT ACTION BY COMMANDER OF AIRCRAFT
- DROPPING OF PERSONS OR ARTICLES
- CARRIAGE OF MUNITIONS
- CARRIAGE OF DANGEROUS GOODS
- ENDANGERING SAFETY OF AIRCRAFT
- ENDANGERING SAFETY OF PERSONS OR PROPERTY
- DRUNKENNES IN AIRCRAFT
- SMOKING IN AIRCRAFT
- AUTHORITY OF COMMANDER OF AIRCRAFT
- EXHIBITIONS OF FLYING
- DOCUMENTS TO BE CARRIED
- PRODUCTION OF DOCUMENTS AND RECORDS
- REVOCATION, SUSPENSION OR VARIATION OF CERTIFICATES, LICENCES OR OTHER DOCUMENTS
- OFFENCES IN RELATION TO DOCUMENTS AND RECORDS
- AERODROMES - INSTRUCTION IN FLYING
- POWER TO PREVENT AIRCRAFT FLYING

AIR TRAFFIC RULES AND SERVICES

- DIVISION OF AIRSPACE IN MALTA AND THE UNITED KINGDOM
- CLASSIFICATION OF AIRSPACE
- IMC AND NOTIFICATION
- TYPES OF AIR TRAFFIC SERVICE UNITS
- ALTIMETER SETTING PROCEDURES
- FLIGHT AT AERODROMES

- FLIGHT PLANS
- FLIGHT INFORMATION REGIONS AND SERVICES
- FLIGHT IN CONTROL ZONES, CONTROL AREAS AND TERMINAL CONTROL AREAS
- FLIGHT ON AIRWAYS
- FLIGHT ON ADVISORY ROUTES/SERVICE AREAS
- AIRMISS REPORTING PROCEDURES
- AIRSPACE RESTRICTIONS AND HAZARDS
- ROYAL FLIGHT
- AERODROMES, AGA SECTION OF THE AIR PILOT
- METEOROLGY
- FACILITATION - CUSTOMS AND PUBLIC HEALTH
- SEARCH AND RESCUE
- WARNING SIGNALS TO AIRCRAFT IN FLIGHT
- EXTRACTS FROM THE RULES OF THE AIR TRAFFIC CONTROL REGULATIONS
- GENERAL FLIGHT RULES
- AERODROME TRAFFICE RULES
- FLIGHT SAFETY AND ACCIDENT/INCIDENT REPORTING

AIR NAVIGATION

- FORM OF THE EARTH
- MAGNETIC VARIATION
- COMPASS DEVIATION
- PRINCIPLES OF NAVIGATION
- MAPS AND CHARTS
- MAP REFERENCE INFORMATION
- MAP READING
- PREPARATION
- METHODS OF MAP READING
- FLIGHT PLANNING
- WEATHER FORECASTS AND REPORTS
- PRACTICAL NAVIGATION

AVIATION METEOROLGY

- THE ATMOSPHERE
- PRESSURE
- THE ALTIMETER
- WIND
- TEMPERATURE
- HUMIDITY
- AIR MASSES
- CLOUDS
- FORMATION OF CLOUDS
- PRECIPITATION
- DEPRESSIONS
- VISIBILITY
- ICE ACCRETION ON AIRCRAFT
- EFFECTS OF WEATHER ON FLIGHT

AIRFRAMES AND ENGINES

- AIRCRAFT STRUCTURE
- ENGINE
- ENGINE IGNITION SYSTEM
- CARBURATION
- EXHAUST SYSTEMS
- DECOKING
- OIL SYSTEM
- FUEL SYSTEM
- ELECTRICAL SYSTEM
- PROPELLER
- REDUCTION DRIVE

AIRCRAFT INSTRUMENTS

- AIRSPEED INDICATOR
- ALTIMETER
- MAGNETIC COMPASS
- ENGINE INSTRUMENTS

FIRE, FIRST AID AND SAFETY EQUIPMENT

- FIRE, DANGERS AND PRECAUTIONS
- FIRST AID

HUMAN PERFORMANCE LIMITATIONS

- INTRODUCTION
 - OXYGEN
 - HYPOXIA
 - HYPERVENTILATION
 - BAROTRAUMA
 - COMMON AILMENTS
 - DECOMPRESSION
 - AIR SICKNESS
 - HEARING
 - SIGHT
 - TOXIC HAZARDS
 - BLOOD PRESSURE
 - EPILEPSY
 - ALCOHOL/DRUGS
 - KNOWLEDGE AND THE SENSES
 - DISORIENTATION
 - AVOIDING THE AIRMISS
 - STRESS
 - MANAGGEMENT OF STRESS
 - SOCIAL PSYCHOLOGY
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