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Section 3, BASIC SKILLS

Module 1L – BASIC KNOWLEDGE (self study guide)

See Section 1 Instructions for use

Module 1L .1 Mathematics (Level 1)	Completed,
Arithmetic Arithmetical terms and signs Methods of multiplication and division Fractions and decimals Factors and multiples Weights, measures and conversion factors Ratio and proportion Averages and percentages Areas and volumes, squares, cubes Algebra Evaluating simple algebraic expressions: addition, subtraction, multiplication and division Use of brackets Simple algebraic fractions Geometry Simple geometrical constructions Graphical representations: nature and use of graphs	
Module 1L.2 Physics (Level 1)	Completed,
Matter Nature of matter; the chemical elements Chemical compounds States; solid, liquid and gaseous Changes between states Mechanics Forces, moments and couples, representation as vectors Centre of gravity Tension, compression, shear and torsion Mature and properties of solids, fluids and gases Temperature Thermometers and temperature scales; Celsius, Fahrenheit and Kelvin Heat definition	
Module 1L.3 Electrics (Level 1)	Completed,

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DC Circuits

Ohm's law, Kirchoff's voltage and current laws

Significance of the internal resistance and voltage drop of a supply

Resistance/resistor

Resistor code, values and tolerances, preferred values, wattage ratings

Resistors in series and parallel

Cable screening and routing

Circuit protection, fuses, circuit breakers and physical protection

Module 1L.4 Aerodynamics/aerostatics (level 1)

Completed,

International Standard Atmosphere (ISA)

ISA Application to aerodynamics and aerostatics

Aerodynamics

Airflow around a body

Boundary layer, laminar and turbulent flow

Thrust, weight, aerodynamic resultant

Generation of lift and drag, angle of attack, polar curve, stall

Aerostatics

Effect on envelopes, wind effect, altitude and temperature effects

Module 1L.5 Workplace safety and environmental protection (Level 2)

Completed,

Safe working practices and precautions when working with electricity, gases (especially oxygen), oils and chemicals

Labelling, storage and disposal of hazardous (to safety and environment) materials

Remedial action in the event of a fire or another accident with one or more hazards, including knowledge of extinguishing agents

Personal Protective Equipment (PPE), types and use

Basic first aid

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Module 2L – HUMAN FACTORS (self study guide)

Module 2L.1 General (Level 1)

Completed,

The need to take human factors into account
Incidents attributable to human factors/human error
Murphys law

**Module 2L.2 Human performance and limitations
(Level 1)**

Completed,

Vision, hearing, information processing, attention, perception and memory

Module 2L.3 Social psychology (Level 1)

Completed,

Responsibility, motivation, peer pressure, teamwork

Module 2L.4 Factors affecting performance (Level 1)

Completed,

Fitness/health, stress, sleep, fatigue, alcohol, medication, drug abuse

Module 2L.5 Physical environment (Level 1)

Completed,

Working environment (climate, noise, illumination)

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Module 3L – AVIATION LEGISLATION (self study guide)

Module 3L.1 Regulatory framework (Level 1)

Completed,

Role of the European Commission, EASA and National Aviation Authorities (NAAs) and the UK CAA

Applicable parts of Part M, Part ML and Part 66L

Module 3L.2 Repairs and modifications (Level 2)

Completed,

Approval of changes (repairs and modifications)

Standard changes and repairs (CS-STAN) Supplemental Type Certificates (STC)

Module 3L.3 Maintenance data (Level 2)

Completed,

Airworthiness Directives (ADs) Instructions for Continuing Airworthiness (ICA) (AMM, IPC, repair manuals etc)

Manual update requirements

Type Certificate Data Sheets (TCDS) information and applicable aircraft.

Requirements for non-supported and orphan aircraft

Service bulletins (SB), Technical Notes (TN) and other manufactures or type certificate holder's information, its relevance and status.

Flight Manual

Maintenance records, retention requirements