

Guidance to Instructors on Subject Delivery

AIR POWER

Programme of learning:

- This is a suggested programme for the delivery of this subject.
- The main headings are the Learning Outcomes (LO1, LO2, etc), with sub headings related to topics within those Learning Outcomes (see Glossary of Terms).

Activities:

- Some practical activities are suggested throughout the programme as a way of reinforcing the learning and adding interest.
- It may be not be practical to undertake all of these activities at the suggested part of the programme.
- Instructors may have to adapt this programme to prevailing circumstances.

Method of delivery:

- Learning resources can be found on Ultilearn and may be adapted by the instructor, if required.
- Lesson delivery should be as practical as possible and should contain the maximum amount of cadet participation and interaction.

Check of understanding:

- Each lesson should contain a check of understanding (see Glossary of Terms).
- At the start of each lesson, the previous check of understanding should be reviewed in order to consolidate previous learning before moving on to new learning.

Formative assessment:

- There should be a formative assessment at the conclusion of each Learning Outcome (see Glossary of Terms).

Summative assessment:

- This is the Online Assessment, through Ultilearn, of the Assessment Criteria for this subject (see Glossary of Terms).
- Assessment Criteria (see Glossary of Terms) are found on the final page of this document.

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Introduction: <ul style="list-style-type: none">• Introduction to the subject and assessment method
LO1: Know applications of air power
Introduction: <ul style="list-style-type: none">• Introduce the meaning of air power and its applications
Principle definitions: <ul style="list-style-type: none">• Introduce the principle definitions of air power• Explain the principle definitions, including:<ul style="list-style-type: none">○ Conceptual○ Moral○ Training○ Physical
Principle strengths: <ul style="list-style-type: none">• Explain the principle strengths, including:<ul style="list-style-type: none">○ Height○ Speed○ Reach○ Flexible○ Response
Principle limitations: <ul style="list-style-type: none">• Explain the principle limitations, including:<ul style="list-style-type: none">○ Air time○ Payload○ Fragility
Historical perspectives: <ul style="list-style-type: none">• Introduce the historical perspectives• Explain the development of modern warfare
British defence doctrine: <ul style="list-style-type: none">• Introduce British defence doctrine• Explain the doctrine, including:<ul style="list-style-type: none">○ Selection and maintenance of aim○ Maintenance of morale

- Security
- Surprise
- Offensive action
- Concentration of force
- Economy of effort
- Flexibility
- Cooperation
- Sustainability

Applications:

- Introduce the applications
- Explain the use of air power, including:
 - Preservation of peace
 - Managing international crisis
 - Wartime applications

Types of conflict, strategy and military operation:

- Introduce the types of conflict, strategy and military operation
- Explain conflict, including:
 - General war
 - Limited conflict
 - Regional conflict
 - Civil war
 - Insurgency
 - Terrorism
- Explain strategy, including:
 - Operational
 - Tactical
- Explain the strategic considerations, including:
 - Ends
 - Ways
 - Means
- Explain the types of military operation, including:
 - Preventative diplomacy
 - Conflict prevention and defence diplomacy
 - Peace support operations
 - Peacekeeping

- Peace enforcement
- Post conflict activity and peace building
- Humanitarian operations
- Deterrence
- Deployment with consent
- Coercion
- Destruction, denial and disruption

Air power factors:

- Introduce air power factors
- Explain the factors, including:
 - Aircraft carriers
 - Airfield
 - Basing considerations
 - Coalition capability
 - Flexibility and versatility
 - Fragility and ease of destruction
 - Impermanence
 - Pace and tempo
 - Payload
 - Penetration
 - Perspective
 - Poise and stand-off
 - Reach
 - Speed of response
 - Sustainability
 - Tasking
 - Ubiquity of space

Review:

- Review the meaning of air power and its applications

Formative assessment:

- Formative assessment of the meaning of air power and its applications

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LO2: Know about combat and combat support air operations

Introduction:

- Introduce combat and combat support air operations

Combat air operations:

- Introduce combat air operations
- Explain the principles
- Explain the roles of combat air support
- Explain offensive counter air operation, including:
 - SEAD
 - Fighter sweep
 - Combat air patrol
 - Escort
 - Airfield attack
- Explain defensive anti air, including:
 - Detection
 - Command and control
 - Weapons systems
- Explain anti surface operations and supporting ground forces, including:
 - Air interdiction
 - Battlefield air interdiction
 - Close air support
 - Maritime operations
- Explain strategic air offensive, including:
 - Conventional weapons
 - Nuclear weapons

Combat support air operations:

- Introduce combat support air operations
- Explain how air support is given to ground forces, including:
 - Air transport
 - Air-to-air refuelling
 - Search and rescue
 - Electronic warfare
 - Information exploitation using information, surveillance and

reconnaissance

- Intelligence surveillance target acquisition reconnaissance (ISTAR)
- Information fusion
- Space operations and control of space

Review:

- Review combat and combat support air operations

Formative assessment:

- Formative assessment of combat and combat support air operations

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LO3: Know roles of ground combat support for air operations

Introduction:

- Introduce the role of ground combat support for air operations

Ground defence methods:

- Introduce ground defence methods
- Explain the types ground defence methods
- Explain active defence, including:
 - Force protection
- Explain passive defence, including:
 - Dispersal
 - Deception
 - Protection
 - Resilience

Role of ground defence:

- Introduce the role of ground defence
- Explain ground defence and force protection and its role in supporting air operations

Training and logistics:

- Introduce training and logistics
- Explain ground support
- Explain training locations and schools
- Explain logistics and its role in ground combat support for air operations, including:
 - Parts
 - Rations
 - Ammunition

Review:

- Review the roles of ground combat support for air operations

Formative assessment:

- Formative assessment of the roles of ground combat support for air operations

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Activity 1:

- Cadets should undertake a series of role playing scenarios related to air power, which could include desktop exercises, field exercises and video simulations

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Subject review:

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| <ul style="list-style-type: none">• Review of the subject and activities |
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Preparation for summative assessment:
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| <ul style="list-style-type: none">• Prepare for Online Assessment on Ultilearn |
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AIR POWER	
Assessment Criteria for Each Learning Outcome	
Subject	Air Power
Classification	Senior Cadet / Master Air Cadet
BTEC Aviation Studies	Unit 9: Principles of Air Power
Learning Outcome	Assessment Criterion
The learner will:	The learner can:
LO1: Know applications of air power	P1: Outline air power principles
	P2: Outline British defence doctrine
	P3: Outline main applications of air power
	P4: Describe factors that need to be considered in the application of air power
LO2: Know about combat and combat support air operations	P5: Outline types of combat air operations
	P6: Describe offensive counter air operations
	P7: Describe strategic air offensives
	P8: Describe anti-surface operations
LO3: Know roles of ground combat support for air operations	P9: Describe how air support is given to ground forces
	P10: Identify types of active and passive defence methods of ground combat support
	P11: Describe role of training and logistics in ground support and air operations

ACO Aviation Training Syllabus

Glossary of Terms

Term	Meaning
Learning outcomes	What a cadet is expected to know, understand or be able to do.
Assessment criteria	The standard a cadet is expected to meet to demonstrate that a learning outcome, or set of learning outcomes, has been achieved.
Guidance to instructors on subject delivery	A programme that gives the instructor guidance on the content and suggested order of delivery for a particular subject. It will include the learning outcomes, what should be covered to achieve those outcomes and any relevant practical activities.
Formative assessment	Regular and informal assessment that provides feedback throughout the learning process that supports the cadet's progress. This can take the form of checks of understanding through question and answer sessions or demonstration of an activity.
Summative assessment	Assessment of learning by an HQ Air Cadets paper-based examination or online assessment. A cadet will have to correctly answer a question that directly relates to an assessment criterion.
Examination	Paper-based exclusive choice question paper for the old syllabus subjects for Leading, Senior and Master Air Cadet.
Online assessment	Online assessment process, accessed through Utlilearn, for Leading Cadet from Sep 10 and Senior and Master Air Cadet from Sep 11.
Lesson check of understanding	Throughout and at the end of each lesson there should be a check of understanding. At the start of the next lesson, the previous check of understanding should be reviewed in order to consolidate previous learning before moving on to new learning.
Check of understanding for First Class Cadet	This is a competence-based assessment process for First Class Cadet which should test understanding through practical demonstration, activity observation, oral questioning and inspection.