

Air Force Common Admission Test (AFCAT) Syllabus

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Overview

The Air Force Common Admission Test (AFCAT) is a computer-based online test conducted by the Indian Air Force to recruit officers in Flying and Ground Duty (Technical and Non-Technical) branches. This document provides a comprehensive guide to the AFCAT syllabus and exam structure.

Exam Pattern

Aspect	Details
Exam Name	Air Force Common Admission Test (AFCAT)
Conducting Body	Indian Air Force (IAF)
Mode of Exam	Online (Computer-Based Test)
Medium	English
Total Questions	100
Total Marks	300
Duration	2 hours (120 minutes)
Negative Marking	-1 mark per wrong answer

Section-Wise Syllabus

1. General Awareness (20-25 Questions, 60-75 Marks)

This section tests your knowledge of current events, history, geography, and defense-related topics. It evaluates your awareness of the world around you and understanding of national and international affairs.

Key Topics:

- History

- Geography
 - Indian Polity and Civics
 - Current Affairs (National and International)
 - Science and Technology
 - Environment and Ecology
 - Basic Science
 - Defense and IAF Operations
 - Sports and Culture
 - Art and Heritage
 - Economics
 - Notable Personalities
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2. Verbal Ability in English (25-30 Questions, 75-90 Marks)

This is the highest-weighted section, designed to assess your English language proficiency and communication skills—essential qualities for an IAF officer.

Key Topics:

- Reading Comprehension
 - Synonyms and Antonyms
 - Vocabulary Building
 - Idioms and Phrases
 - Sentence Completion
 - Error Detection and Correction
 - One-Word Substitution
 - Active and Passive Voice
 - Direct and Indirect Speech
 - Sentence Rearrangement
 - Paragraph Formation
 - Spotting Errors
 - Fill in the Blanks
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3. Numerical Ability (15-20 Questions, 45-60 Marks)

This section tests your mathematical skills and quantitative aptitude required for problem-solving in critical military situations.

Key Topics:

- Decimal and Fractions
- Simplification
- Average and Averages
- Ratio and Proportion
- Percentage
- Profit and Loss
- Time and Work
- Time, Speed and Distance
- Simple Interest and Compound Interest
- Algebra
- Basic Arithmetic Operations

- Number System
 - Heights and Distances
 - Area and Perimeter
 - Volume and Surface Area
 - Square Root and Cube Root
 - HCF and LCM
 - Mixture and Alligation
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4. Reasoning and Military Aptitude Test (25-35 Questions, 75-105 Marks)

This section evaluates your logical thinking, spatial ability, and decision-making skills crucial for air force operations.

Key Topics:

- Verbal Reasoning
 - Analogies
 - Series and Pattern Recognition
 - Coding-Decoding
 - Blood Relations
 - Logical Deduction
 - Mathematical Relations
 - Non-Verbal Reasoning
 - Figure Classification
 - Pattern Recognition
 - Hidden Figures
 - Odd One Out
 - Figure Series
 - Spatial Reasoning
 - Rotated Figures
 - Mirror Images
 - Paper Folding
 - Spatial Orientation
 - Data Interpretation
 - Logical Reasoning
 - Puzzle Tests
 - Venn Diagrams
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Engineering Knowledge Test (EKT) - For Technical Candidates

Note: The Engineering Knowledge Test (EKT) has been discontinued as per recent updates for Ground Duty (Technical) candidates in AFCAT 02/2025 onwards.

For those preparing for technical positions in previous years, the EKT covered:

- **Mechanical Engineering:** Thermodynamics, Heat Transfer, Machine Design
 - **Computer Science:** Programming, Data Structures, Networking
 - **Electrical & Electronics:** Circuit Theory, Power Systems, Electronics
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Important Exam Tips

1. **Time Management:** Allocate approximately 72 seconds per question (120 minutes ÷ 100 questions)
 2. **Negative Marking:** Each wrong answer costs 1 mark, so attempt carefully
 3. **English Section Weight:** This is the highest-weighted section; focus preparation accordingly
 4. **Current Affairs:** Stay updated with recent defense operations and military news
 5. **Mock Tests:** Practice with previous year papers and mock tests for better preparation
 6. **Spatial Reasoning:** Improve your visualization skills through regular practice
 7. **Accuracy Over Speed:** Quality attempts are better than rushing through questions
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Preparation Strategy

Month-Wise Approach

- **Month 1:** Focus on building strong fundamentals in English and Numerical Ability
- **Month 2:** Strengthen General Awareness with current affairs and defense knowledge
- **Month 3:** Intensive practice on Reasoning and Military Aptitude Test
- **Month 4:** Revision and mock tests across all sections

Recommended Resources

- Official AFCAT website: afcat.edcil.co.in
 - Previous year question papers
 - Online mock tests
 - Current affairs websites and news portals
 - English grammar reference books
 - Quantitative aptitude practice books
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Selection Process

1. **Written Exam (CBT):** AFCAT exam as described above
 2. **Air Force Selection Board (AFSB) Interview:** For qualified candidates
 3. **Medical Examination:** Fitness tests and medical evaluation
 4. **Final Merit List:** Based on combined performance
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Eligibility Criteria (General Overview)

- **Age:** 18-28 years (at the time of application)
 - **Education:** Graduation from a recognized university (for most positions)
 - **Citizenship:** Indian citizen
 - **Physical Fitness:** Must be medically fit for Air Force service
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Important Notes

- The syllabus and exam pattern are subject to updates by the Indian Air Force. Always refer to the official AFCAT website for the latest information.
- This document is prepared for general guidance and preparation purposes.
- Candidates are advised to check official notifications before appearing for the exam.

Document Information:

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References

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