BOARD INFINITY

COURSE 3 OF 4 · JOB & EXAM APTITUDE MASTERY SPECIALIZATION

Logical & Analytical Reasoning - Exam & Recruitment Prep

Full course syllabus - every module, video lesson, reading and assignment, from number series to cube cutting.

Board Infinity
Instructor · Offered on Coursera

5	56	19	2 weeks
Modules	Video lessons	Assignments	At 10 hours a week

INSIDE THE COURSE

01	Fundamentals of Series and Coding-Decoding	4 hours to complete
02	Logical Arrangements: Linear and Circular Reasoning	4 hours to complete
03	Analytical Reasoning: Distribution, Selection, and Comparison	5 hours to complete
04	Diagrammatic Reasoning: Venn Diagrams	5 hours to complete
05	Spatial Reasoning: Cubes and Dice	4 hours to complete

Enroll on Coursera

https://www.coursera.org/learn/logical-reasoning-for-entrance-exam-job-placements

01 ABOUT THE COURSE

Exam-ready reasoning, one pattern at a time.

Logical & Analytical Reasoning builds exam-ready reasoning skills from scratch, for anyone preparing for a competitive exam, campus placement or job aptitude test.

It moves from number, letter and coding-based series to linear and circular arrangements, distribution, selection and comparison problems, Venn diagrams, and finally cubes and dice - with shortcut methods throughout. 56 videos, 5 readings and 19 assignments in all.

WHO IT'S FOR

Competitive exam candidates
Building speed and accuracy on reasoning questions.

Campus placement candidates
Preparing for logical reasoning rounds in recruitment tests.

Job aptitude test takers
Learning the question families online tests reuse.

Working professionals
Brushing up on aptitude before interviews.

WHAT YOU'LL LEARN

01 **Spot series and coding patterns fast** Module 1
Analyze number, letter, and coding-decoding series to spot patterns fast under exam pressure

02 **Solve arrangement and analytical puzzles** Modules 2-3
Apply arrangement, distribution, and selection techniques to solve analytical reasoning problems

03 **Design Venn diagram solutions** Module 4
Design Venn diagram based solutions to two-figure and three-figure logical deduction problems

04 **Build spatial reasoning** Module 5
Build spatial reasoning skills to solve cube and dice problems using proven shortcut methods

02 SYLLABUS

Five modules, series to cube cutting.

2 weeks to complete at 10 hours a week. Flexible schedule - learn at your own pace.

01 Fundamentals of Series and Coding-Decoding

4 hours · 10 videos

Number and letter series, and coding-decoding techniques

BY THE END OF THIS MODULE YOU CAN

- Identify patterns in number and letter series, including prime, square and cube series
- Solve digit-operation, multiplication and division series
- Decode letter, miscellaneous-logic and set-based coding problems

CONTENTS: 10 videos (128 min) · 1 reading (30 min) · 4 assignments (105 min)

TOPICS: Foundations of Number and Letter Series; Advanced Number Series Techniques; Coding-Decoding Strategies

You'll leave with: a set of pattern rules for spotting series and coding logic fast.

02 Logical Arrangements: Linear and Circular Reasoning

4 hours · 8 videos

Seating, positioning and ordering under constraints

BY THE END OF THIS MODULE YOU CAN

- Explain the basics of linear and circular arrangements
- Solve easy, medium and difficult linear arrangement problems
- Solve basic to difficult circular arrangement problems

CONTENTS: 8 videos (133 min) · 1 reading (30 min) · 3 assignments (90 min)

TOPICS: Linear Arrangements - From Basics to Advanced; Circular Arrangements - Basics to Advanced

You'll leave with: a step-by-step method for seating and ordering puzzles at any difficulty.

03 Analytical Reasoning: Distribution, Selection, and Comparison

Allocating, selecting and ranking under given conditions

5 hours
10 videos

BY THE END OF THIS MODULE YOU CAN

- Solve distribution problems from introductory to difficult level
- Solve selection problems under given conditions
- Rank and compare in comparison problems, using shortcut techniques

CONTENTS: 10 videos (137 min) · 1 reading (30 min) · 4 assignments (105 min)

DISCUSSION: When Logic Gets Tricky - How Do You Decide? (10 min)

TOPICS: Distribution Problems: From Basic to Advance; Selection Problems: From Basic to Advance; Comparison Problems: From Basic to Advance

You'll leave with: shortcut approaches for distribution, selection and comparison problems.

04 Diagrammatic Reasoning: Venn Diagrams

Regions, two-figure and three-figure problems, and shortcuts

5 hours
17 videos

BY THE END OF THIS MODULE YOU CAN

- Understand the regions of a Venn diagram
- Solve two-figure and three-figure Venn diagram problems
- Use shortcut approaches on easy, medium and difficult sets

CONTENTS: 17 videos (182 min) · 1 reading (30 min) · 4 assignments (105 min)

TOPICS: Foundations of Venn Diagrams; Two-Figure Venn Diagrams; Three-Figure Venn Diagrams

You'll leave with: a fast, reliable way through two- and three-figure Venn diagram questions.

05

Spatial Reasoning: Cubes and Dice

Cube faces, dice properties, and cube cutting

4 hours

11 videos

BY THE END OF THIS MODULE YOU CAN

- Identify cube faces and dice properties
- Apply cube-cutting concepts and methods
- Solve even-cut, odd-cut and even-piece problems
- Use shortcut approaches on easy, medium and difficult sets

CONTENTS: 11 videos (113 min) · 1 reading (30 min) · 4 assignments (105 min)

TOPICS: Introduction to Cubes and Dice | Advanced Cube Cutting Techniques | Cubes and Dice Problem Sets

You'll leave with: the spatial reasoning to solve cube and dice problems with shortcut methods.

03 TOOLS & SKILLS

The question types reasoning sections set.

Series & coding Module 1

Number and letter series, and coding-decoding.

In this course: Pattern rules built for speed under exam pressure.

Arrangements & puzzles Modules 2-3

Linear and circular seating, distribution, selection and comparison.

In this course: Work through constraints to one valid answer.

Venn diagrams Module 4

Two-figure and three-figure logical deduction.

In this course: The full approach first, then the shortcut.

Cubes & dice Module 5

Cube faces, dice properties and cube cutting.

In this course: Even cuts, odd cuts and even pieces, with shortcuts.

SKILLS YOU LEAVE WITH

Pattern skills

- Number series
- Letter series
- Coding-decoding
- Set-based coding

Analytical skills

- Linear & circular arrangements
- Distribution & selection
- Comparison & ranking
- Constraint handling

Visual & exam skills

- Venn diagrams
- Cubes & dice
- Shortcut methods
- Exam-day speed

04 CERTIFICATE & CAREER

Finish with a shareable certificate.

Add it to LinkedIn
Add this credential to your LinkedIn profile, resume, or CV.

Share it anywhere
Share it on social media and in your performance review.

Earned, not attended
Awarded on a graded quiz in each of the five modules.

Course 3 of 4
Part of the Job & Exam Aptitude Mastery Specialization from Board Infinity.

WHERE THESE SKILLS COUNT

MBA entrance exams · Banking exams · Government & SSC exams · Campus placements · Job aptitude tests · Interview puzzles



Board Infinity

Instructor · Offered on Coursera · 5,382 already enrolled

Beginner level · Taught in English · Flexible schedule

Ready to sharpen your reasoning?

Enrollment, lessons, grading and the certificate all happen on Coursera.

Enroll on Coursera

Course page: coursera.org/learn/logical-reasoning-for-entrance-exam-job-placements

Want a coach alongside the course?

Board Infinity 1:1 coaching is a separate, optional Board Infinity offering - it is not part of the Coursera course. Details: https://www.boardinfinity.com/career-coaching/

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