

**CERTLABZ****CERTIFICATION BOARD****CDAS-001**

# Certified Data Analytics Specialist (CDAS)

## Exam Objectives CDAS-001

### About the exam

| Item                | Detail                                                                                                                                                                                                                                                                                               |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Level               | Advanced                                                                                                                                                                                                                                                                                             |
| Number of questions | 120. A performance-based exam: each form can carry up to 5 to 12 performance-based questions alongside the multiple-choice questions.                                                                                                                                                                |
| Delivery model      | Computer adaptive in 3 stages of 42, 39, 39 questions. Your score on each stage selects the difficulty of the next, so no two candidates sit the same paper.                                                                                                                                         |
| Time limit          | 180 minutes                                                                                                                                                                                                                                                                                          |
| Scoring             | You need a score of 700 out of 900 to pass. Results are reported on a scale of 100 to 900, and 700 corresponds to answering 72% of the exam correctly. Harder questions carry more weight, so a score means the same thing on any route. Multiple-response items and PBQs are scored all or nothing. |
| Delivery            | Online, fully proctored (webcam, microphone and screen).                                                                                                                                                                                                                                             |
| Prerequisites       | No formal prerequisite. Candidates do best with one to two years of analytics or reporting experience and 40 to 70 hours of study.                                                                                                                                                                   |
| Retakes             | No waiting period after a failed first attempt. Candidates pay the exam price each time they attempt the exam. See the CertLabz Certification Retake Policy at <a href="https://certlabz.com/certification-retake-policy.html">certlabz.com/certification-retake-policy.html</a>                     |
| Validity            | 3 years. Renew with 75 CEUs per cycle and the \$55 annual continuing-education fee, or by passing the current exam.                                                                                                                                                                                  |
| Language            | English                                                                                                                                                                                                                                                                                              |
| Exam voucher        | \$199 for one sitting, valid 12 months. Bundles add the study guide ebook and the All Access plan.                                                                                                                                                                                                   |

### Domain weights

| Domain                                          | Questions |
|-------------------------------------------------|-----------|
| D1 Analytics Foundations and Lifecycle (16%)    | 19        |
| D2 Data Preparation, Cleaning and Quality (16%) | 19        |
| D3 Exploratory Analysis and Statistics (17%)    | 21        |

D4 Visualization and Dashboards (17%)

|                                                      |            |
|------------------------------------------------------|------------|
|                                                      | 21         |
| D5 Business Intelligence and Communication (17%)     | 20         |
| D6 Governance, Ethics and Analytics Operations (17%) | 20         |
| <b>Total (100%)</b>                                  | <b>120</b> |

## Objectives by domain

Each objective may appear as knowledge, a scenario to judge, a circuit to trace or assemble, or a number to compute. Each form can carry up to 5 to 12 performance-based questions: drag-and-drop matching, sequencing and table completion, drawn fresh each attempt. The exam does not test any vendor's SDK syntax.

### D1 Analytics Foundations and Lifecycle

16% 19 questions

- D1.1 Descriptive, diagnostic, predictive, prescriptive
- D1.2 The analytics lifecycle
- D1.3 Metrics, dimensions and KPIs
- D1.4 Structured versus unstructured data
- D1.5 Warehouses, OLTP and OLAP
- D1.6 Precise metric definitions and a source of truth

### D2 Data Preparation, Cleaning and Quality

16% 19 questions

- D2.1 Cleaning errors, duplicates and missing values
- D2.2 Outliers and data-quality dimensions
- D2.3 ETL and normalization
- D2.4 Joins and cardinality
- D2.5 Type and range validation
- D2.6 Profiling and reproducible preparation

### D3 Exploratory Analysis and Statistics

17% 21 questions

- D3.1 Central tendency and spread
- D3.2 Correlation versus causation and confounders
- D3.3 p-values, significance and sample size
- D3.4 Distributions and confidence intervals
- D3.5 Sampling bias
- D3.6 Segmentation and EDA

### D4 Visualization and Dashboards

17% 21 questions

- D4.1 Choosing the right chart
- D4.2 Misleading axes and chartjunk
- D4.3 Accessible, purposeful color
- D4.4 Dashboard focus and hierarchy
- D4.5 Interactivity and audience fit
- D4.6 Labels, units and sources

## D5 Business Intelligence and Communication

17% 20 questions

- D5.1 Business intelligence and self-service BI
- D5.2 Data storytelling
- D5.3 Communicating at the right altitude
- D5.4 Context, comparison and recommendations
- D5.5 Consistent layouts and curated metrics
- D5.6 Resolving conflicting numbers

## D6 Governance, Ethics and Analytics Operations

17% 20 questions

- D6.1 Data governance and privacy law
- D6.2 Bias and honest representation
- D6.3 Reproducible, version-controlled analytics
- D6.4 Access control and data lineage
- D6.5 Data catalogs and quality monitoring
- D6.6 Anonymization and aggregation

### Continuing education

| Renewal                 | Requirement                                                 |
|-------------------------|-------------------------------------------------------------|
| Validity                | 3 years from the date of issue                              |
| CEUs required per cycle | 75                                                          |
| Annual CE fee           | \$55                                                        |
| Alternative to CEUs     | Pass the current version of the exam before the expiry date |

### Qualifying activities

| Activity                                                     | CEUs                               |
|--------------------------------------------------------------|------------------------------------|
| CertLabz labs, PBQs, courses and SkillTracker assessments    | 1 CEU per hour, up to 25 per cycle |
| Other industry certifications earned or renewed              | 10 to 25 each, depending on level  |
| Conferences, webinars and training                           | 1 CEU per hour, up to 20 per cycle |
| Analytics, BI or data work experience                        | 3 per year, up to 9 per cycle      |
| Teaching, mentoring, publishing or open-source contributions | Up to 15 per cycle                 |
| College courses in statistics, computing or business         | 10 per completed course            |

## CertLabz Certification Retake Policy

- **No waiting period after a failed first attempt:** If you fail your first attempt at any CertLabz certification examination, CertLabz does not require any waiting period between the first and second attempt.

- **Once you pass, you cannot resit the same exam code:** A candidate who has passed an exam and achieved a certification cannot take that exam again under the same exam code without prior consent from CertLabz. You will need to wait until a new series of the exam is published before attempting to recertify by examination.

- **Beta examinations, one attempt only:** A CertLabz beta examination may be taken one time by each candidate.

- **Violations invalidate the attempt:** A test found to be in violation of this policy will be invalidated, and the candidate may be subject to a suspension period. Repeat violators will be permanently banned from the CertLabz Certification Program.

- **Every attempt is paid for:** Candidates must pay the exam price each time they attempt the exam. CertLabz does not offer free retests or discounts on retakes.

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<https://certlabz.com/certifications/certified-data-analytics-specialist.html>