



This detailed analysis of exam results has been prepared expressly for

Name: John Doe
Member ID: 99999999
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The purpose of a detailed analysis of score results is to provide you with detailed information about your score from which you can identify topics in the body of knowledge (BOK) to study.

Only you can determine which areas of the BOK you feel you need to study further. This document is meant to provide you with a means of making this determination, and ASQ Certification Offerings will not provide any additional information pertaining to your score.

This detailed analysis is presented in two parts.

- 1) The first part is a duplication of the score report you received after taking the examination. It provides the total number of **correct** answers you had for each BOK area.
- 2) The second part provides a more detailed analysis of your score report by providing the number of test questions that you answered **incorrectly** for each subtopic level (the 3rd level) in the BOK outline. If there is not a subtopic level, the number of incorrect responses for the topic level (the 2nd level) in the BOK outline is provided. For any area with answers, the number of test questions that were on the examination for that topic level is also provided.

For a complete ASQ CQE BOK (with the explanatory subtext) please visit
<http://prdweb.asq.org/certification/resource/docs/cqe-bok-2006.pdf>

Part 1: Analysis of Score Result

Body of Knowledge	Number of Questions	Number You Had Correct
I.	18	10
II.	16	10
III.	23	15
IV.	25	12
V.	27	16
VI.	36	16
VII.	15	9
Total:	160	88

How to Analyze PART 2: the Detailed Analysis of Score Result

The total number of questions that will appear on the examinations for each major BOK area (the 1st outline level) is specified in its heading. The number of questions that are asked for each topic and subtopic level (the 2nd and 3rd levels) may vary from one exam to another but the total will always be equal to the number specified in the major BOK area heading.

In Part 2, if you answered questions incorrectly, you are provided with the total number of questions that were in the examination for that topic area (the 2nd level). At the end of each major BOK area, you are provided with an overall summary of incorrect questions compared to the total number of questions in that area.

To determine which BOK areas you may wish to study further, you can review your performance on this examination in each major BOK area or at the topic level.



Part 2: Detailed Analysis of Score Result

I. MANAGEMENT AND LEADERSHIP (18 Questions)

A. Quality Philosophies and Foundations

- Missed 1**
1. Evolution of Quality
 2. Continuous improvement tools

Out of a possible 3 questions

B. The Quality Management System (QMS)

1. Strategic planning
 2. Deployment techniques
 3. Quality information system (QIS)
- Missed 1**
- Missed 1**

Out of a possible 5 questions

C. ASQ Code of Ethics for Professional Conduct

Missed 3 D. Leadership Principles and Techniques

Out of a possible 5 questions

E. Facilitation Principles and Techniques

- Missed 1**
1. Roles and responsibilities
 2. Facilitation tools

Out of a possible 1 questions

Missed 1 F. Communication Skills

Out of a possible 1 questions

G. Customer Relations

H. Supplier Management

1. Techniques
2. Improvement
3. Risk

I. Barriers to Quality Improvement

Major BOK Area Summary
No. of Questions Possible: **18**
Total No. Missed: 8



Part 2: Detailed Analysis of Score Result

II. THE QUALITY SYSTEM (16 Questions)

A. Elements of the Quality System

1. Basic elements
2. Design

B. Documentation of the Quality System

1. Document components
2. Document control

C. Quality Standards and Other Guidelines

D. Quality Audits

- Missed 1** 1. Types of audits
2. Roles and responsibilities in audits
- Missed 1** 3. Audit planning and implementation
- Missed 1** 4. Audit reporting and follow-up

Out of a possible 6 questions

Missed 3 E. Cost of Quality (COQ)

Out of a possible 7 questions

F. Quality Training

Major BOK Area Summary
No. of Questions Possible: **16**
Total No. Missed: 6



Part 2: Detailed Analysis of Score Result

III. PRODUCT, PROCESS, AND SERVICE DESIGN (23 Questions)

A. Classification of Quality Characteristics

B. Design Inputs and Review

- Missed 1**
1. Inputs
 2. Review

Out of a possible 1 questions

Missed 1 C. Technical Drawings and Specifications

Out of a possible 1 questions

Missed 2 D. Verification and Validation

Out of a possible 3 questions

E. Reliability and Maintainability

1. Predictive and preventive maintenance tools
2. Reliability and maintainability indices
3. Reliability models
4. Reliability / Safety / Hazard Assessment Tools

Out of a possible 17 questions

Major BOK Area Summary
No. of Questions Possible: **23**
Total No. Missed: 8



Part 2: Detailed Analysis of Score Result

IV. PRODUCT AND PROCESS CONTROL (25 Questions)

A. Methods

B. Material Control

- Missed 2** 1. Material identification, status, and traceability
2. Material segregation
- Missed 1** 3. Material classification
4. Material review board (MRB)

Out of a possible 7 questions

C. Acceptance Sampling

- Missed 2** 1. Sampling concepts
- Missed 2** 2. Sampling standards and plans
3. Sample integrity

Out of a possible 8 questions

D. Measurement and Test

- Missed 1** 1. Measurement tools
2. Destructive and nondestructive tests

Out of a possible 3 questions

Missed 2 E. Metrology

Out of a possible 3 questions

Missed 3 F. Measurement System Analysis (MSA)

Out of a possible 4 questions

Major BOK Area Summary
No. of Questions Possible: **25**
Total No. Missed: 13



Part 2: Detailed Analysis of Score Result

V. CONTINUOUS IMPROVEMENT (27 Questions)

A. Quality Control Tools

1. Flowchart
- Missed 1** 2. Pareto chart
3. Cause & effect diagram
4. Control chart
5. Check sheet
6. Scatter diagram
7. Histogram

Out of a possible 6 questions

B. Quality Management and Planning Tools

- Missed 1** 1. Affinity diagrams and force field analysis
2. Tree diagram
3. Process decision program chart (PDPC)
4. Matrix diagram
- Missed 2** 5. Interrelationship digraph
- Missed 1** 6. Prioritization matrix
- Missed 2** 7. Activity network diagram

Out of a possible 8 questions

C. Continuous Improvement Methodologies

1. Total quality management (TQM)
2. Kaizen
- Missed 1** 3. P D C A-
- Missed 1** 4. Six sigma
5. Theory of constraints (TOC)

Out of a possible 3 questions

D. Lean tools

Missed 1 E. Corrective Action

Out of a possible 3 questions

Missed 1 F. Preventive Action

Out of a possible 4 questions

Major BOK Area Summary
No. of Questions Possible: **27**
Total No. Missed: 11



Part 2: Detailed Analysis of Score Result

VI. QUANTITATIVE METHODS AND TOOLS (36 Questions)

A. Collecting and Summarizing Data

- Missed 1** 1. Types of data
- Missed 1** 2. Measurement scales
- 3. Data collection methods
- 4. Data accuracy and integrity
- 5. Descriptive statistics
- 6. Graphical methods for depicting relationships
- 7. Graphical methods for depicting distributions

Out of a possible 5 questions

B. Quantitative concepts

- 1. Terminology
- 2. Drawing statistical conclusions
- Missed 2** 3. Probability terms and concepts

Out of a possible 5 questions

C. Probability Distributions

- Missed 3** 1. Continuous distributions
- Missed 3** 2. Discrete distributions

Out of a possible 6 questions

D. Statistical Decision-Making

- Missed 3** 1. Point estimates and confidence intervals
- Missed 1** 2. Hypothesis testing
- 3. Paired-comparison tests
- 4. Goodness-of-fit tests
- 5. Analysis of variance (ANOVA)
- 6. Contingency tables

Out of a possible 5 questions

E. Relationships Between Variables

- 1. Linear regression
- 2. Simple linear correlation
- 3. Time-series analysis

F. Statistical Process Control (SPC)

- 1. Objectives and benefits
- 2. Common and special causes



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3. Selection of variable
 4. Rational subgrouping
 5. Control charts
 6. Control chart analysis
 7. PRE-control charts
 8. Short-run SPC

Missed 1

Missed 1

Out of a possible 7 questions

G. Process and Performance Capability

1. Process capability studies
2. Process performance vs. specifications
3. Process capability indices
4. Process performance indices

Missed 2

Out of a possible 4 questions

H. Design and Analysis of Experiments

1. Terminology
2. Planning and organizing experiments
3. Design principles
4. One-factor experiments
5. Full-factorial experiments
6. Two-level fractional factorial experiments

Missed 1

Missed 1

Out of a possible 3 questions

Major BOK Area Summary
No. of Questions Possible: **36**
Total No. Missed: 20



Part 2: Detailed Analysis of Score Result

VII. RISK MANAGEMENT (15 Questions)

A. Risk Oversight

Missed 3

1. Planning and oversight
2. Metrics
3. Mitigation planning

Out of a possible 8 questions

Missed 3 B. Risk Assessment

Out of a possible 4 questions

C. Risk Control

1. Identification and documentation
2. Auditing and testing

Major BOK Area Summary
No. of Questions Possible: **15**
Total No. Missed: 6
