



The Skills of the Information / Data Quality Professional

C. Lwanga Yonke, Christian Walenta, John Talburt
IAIDQ

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Agenda



-
- About IAIDQ – International Association for Information and Data Quality
 - Context Setting – IQCP Program Overview
 - IQCP Framework
 - IQ/DQ Knowledge and Skills Groups
 - Summary

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IAIDQ Overview



Chartered in January 2004, IAIDQ is a non-profit 501c(6) professional society focusing on advancing the information and data quality profession and its body of knowledge

Vision

By cultivating information excellence throughout the data and information lifecycle, the IAIDQ will help transform organizations and society, improving the quality of life everywhere

Mission

IAIDQ is advancing the quality of information and data around the world by building a community, supporting learning and sharing knowledge for the benefit of all information consumers

IAIDQ Attributes

- Guided by recognized data quality experts
- Member-driven & led by volunteers
- Value-focused, vendor-neutral
- Global reach

Current Membership

- Members in 30+ countries, on 5 continents
- Direct access to 5,000+ IQ/DQ Professionals through mailing list and LinkedIn group

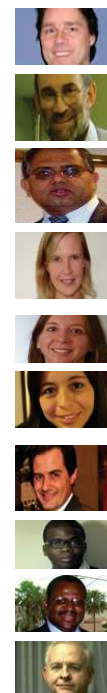
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Global Reach, Local Feel



Global Reach

30 countries represented,
covering 5 continents

Website traffic from 144
countries monthly

Local Feel

Communities of Practice,
Affiliates, LinkedIn
discussion boards



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What is the IQCP?



“The Information Quality Certified Professional”

Professional certification credential for IQ/DQ practitioners

IQCP confirms that the Information and Data Quality professional

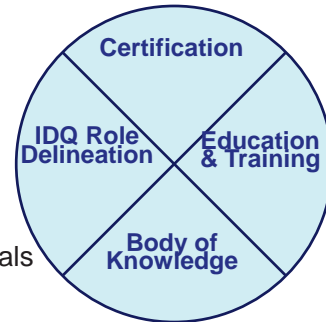
- Mastered core information quality competencies
- Qualified to provide information and data quality services
- Meets a minimum of professional experience and education
- Demonstrated level of knowledge and skills as validated per exam
 - Practical knowledge of information quality principles, concepts and methods
 - Covering broad range of topics within six areas, i.e. performance domains
- Commits to ongoing professional development and learning

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Why did IAIDQ develop the IQCP?

- Expectation on us as Professional Association for Information and Data Quality Practitioners
 - Our members asked for it, confirmed through multiple member surveys
- Certification is one of “cornerstones” of the IDQ discipline so it was “the right thing to do” to
- Advance the IDQ profession by setting direction for:
 - training and skills development programs
 - career ladders plan
 - university curricula, etc
- Elevate the stature of the IDQ discipline and profession
- Enhance the quality of services provided by IDQ professionals
- Drive the maturity of IDQ discipline and industry



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For whom is IQCP?

IDQ Professionals hold a **wide range of positions** in their organizations

- anybody who performs, leads, directs or champions information quality
- individual contributors, managers or executives
- in any Business function or Information Technology departments
- as a part-time role or full-time within a broader organizational role



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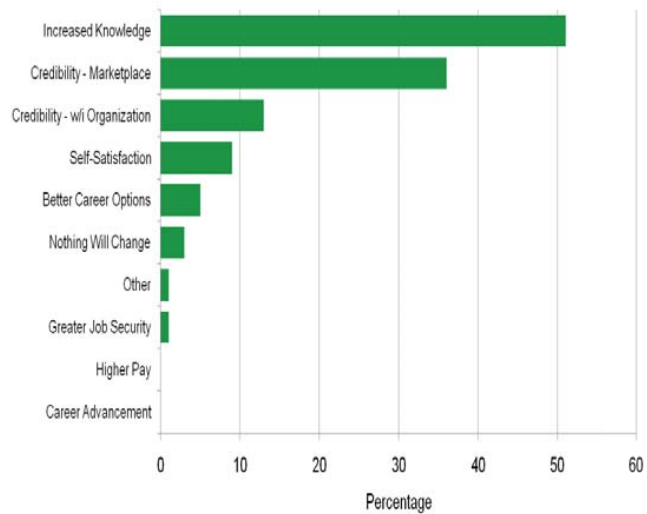
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What's in it for you?



- Expand your skills
- Build your potential
- Challenge to grow
- Secure your success
- Credibility
- Career advancement
- Peer recognition
- Self satisfaction

Most Important Benefit of IQCP Certification



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Who Benefits?



- Individuals – professionals
- Organizations - businesses
- Information management industry
- Information consumers at large

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What makes IQCP unique?



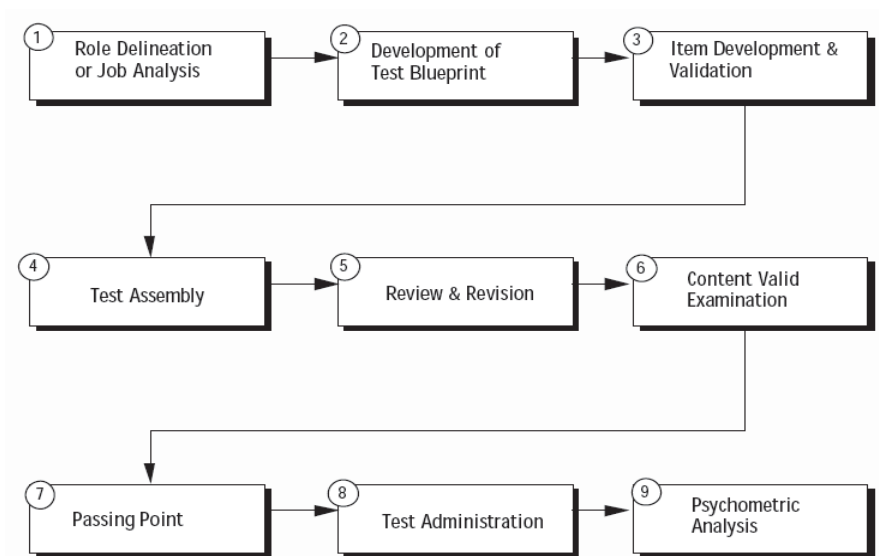
- Focus on Information and Data Quality
- Comprehensive and Independent
- *“For IDQ professional from IDQ professionals”*
- Based on rigorous development process, following standards and regulations such as ...
 - ISO/IEC 17024 for Personnel Certification Bodies
 - Standards for Educational and Psychological Testing
 - Standards for the Accreditation of Certification Programs
- Continuous professional development
- Worldwide acceptance and recognition

“IQCP – setting a high standard for the IDQ Profession”

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Exam Development Roadmap* 9 Step Approach



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Who is the IQCP Global Community? **iaidq**



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How do you attain the IQCP Credential? **iaidq**

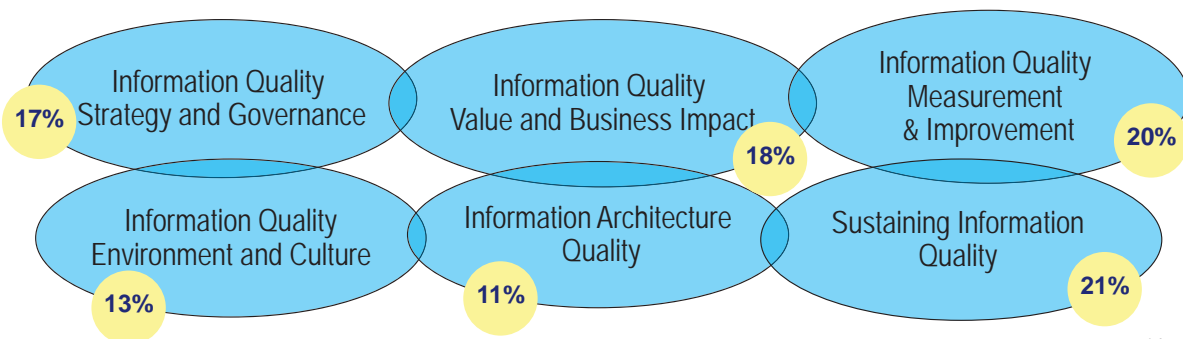
IDQ Work Experience

- 3 years w/ Bachelor's degree or equivalent
- 5 years without

IAIDQ Code of Ethics and Professional Conduct

IQCP Exam

- 150 multiple Choice Questions
- 3 Hours



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Prior Work



- English, L.P., (2008), "Information Quality Management: Job Position Roles", *IDQ Newsletter Vol 4 Issue 2*, IAIDQ
- Redman, T.C., (2007), "The Body Has a Heart and Soul: Roles and Responsibilities of the Chief Data Officer" *IDQ Newsletter Vol 3 Issue 1*, IAIDQ
- Pierce, E.M. (2003), "Pursuing a Career in Information Quality: The Job of the Data Quality Analyst", *Proceedings of the Eight International Conference on Information Quality*. MIT. Cambridge, MA
- Chung, W.Y., Fisher, C.W. and Wang, R. (2002), "What Skills Matter in Data Quality?", *Proceedings of the Seventh International Conference on Information Quality*. MIT. Cambridge, MA
- Fisher, C.W. (2001), "A College Course: Data Quality in Information Systems." *Proceedings of the Sixth International Conference on Information Quality*. MIT. Cambridge, MA.

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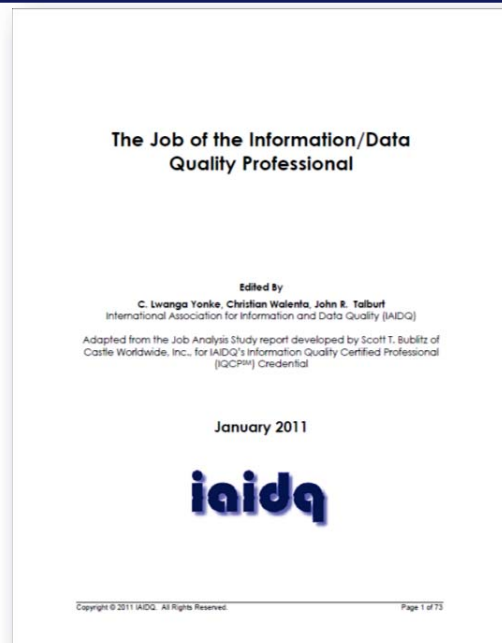
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IQCP Framework



Structure

- 6 Domains
- 29 Tasks
- 443 Knowledge and Skills entries (207 distincts)



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Domain and Tasks Example: ***IQ Strategy and Governance***



- Develop information quality strategy and roadmap to manage information as an asset
- Define information quality principles, policies and standards to guide decision making and organizational behaviors
- Define and implement a data governance model to establish a management system for information assets
- Enforce conformance to information quality principles, policies and standards to optimize the value of information assets
- Define a communication strategy to gain support for the established strategy and governance
- Build relationships with senior leaders to champion and enforce the information quality mandate

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Domain and Tasks Example: ***IQ Measurement & Improvement***



- Gather additional business and data quality rules to complete the understanding of business requirements
- Determine data quality targets by reviewing business objectives to prioritize improvement efforts
- Measure actual data quality levels to identify data and process improvement opportunities
- Determine root causes of issues to identify most effective way to fix and prevent the problem
- Coordinate implementation of improvement efforts to eliminate data errors and resolve data issues
- Improve processes and establish controls to permanently eliminate the root causes of problems

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IQ/DQ Knowledge & Skills Groups



- Challenge: how to classify 207 distinct Knowledge and Skills
- Approach: 5 groups
 - IQ/DQ Core
 - Quality Foundation
 - Leading the IQ/DQ Effort
 - Information Management
 - People & Interpersonal Effectiveness

See Appendix A in the *Job of the Information/Data Quality Professional* report, for the full list of skills.

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IQ/DQ Core



- Data, its properties, its characteristics/dimensions, and implications on managing data as an asset
- Value, cost and business impact
- Accountabilities through governance and stewardship
- DQ measurement
- Data improvement
- DQ requirements analysis
- Information chain and lifecycle management
- IQ/DQ foundation: pioneers, principles and best practices
- Categories of DQ tools
- DQ standards, laws and regulations

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Quality Foundation



- Process Improvement
- Quality pioneers and principles
- Statistical techniques
- Structured problem-solving and root-cause analysis
- Team processes

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Leading the IQ/DQ Effort



- Assessing and assuring IQ function effectiveness
- Business acumen
- IQ/DQ strategic and business planning
- Project management

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Information Management



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- Data migration
 - Database concepts
 - Information/data architecture
 - Metadata
 - System development concepts

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People, Interpersonal Effectiveness



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- IAIDQ Code of Ethics and Professional Conduct
 - Communication skills
 - Employee engagement and recognition
 - Leading Change
 - Training

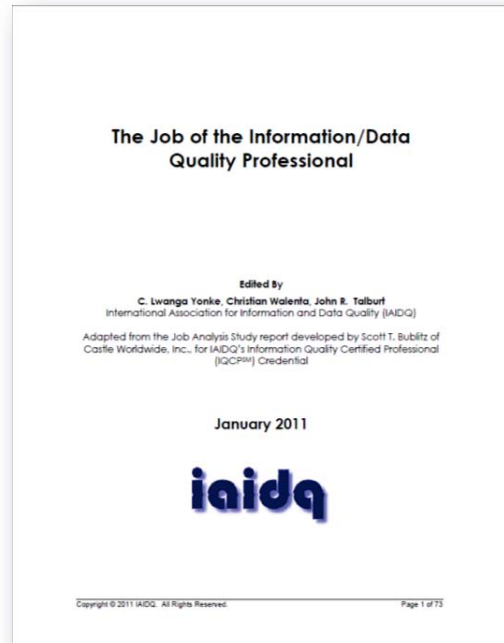
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Summary



- . IQ/DQ is broad and multi-disciplinary
- . IQCP Framework consists of
 - 6 Performance Domains
 - 29 Tasks
 - 443 Knowledge and Skills entries
 - o 207 distinct Knowledge and Skills, in 5 major groups



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For more information visit: iqcp.org



The screenshot shows the IAIDQ website interface. At the top, there is a navigation menu with links: IAIDQ Home, About IAIDQ, People, Events, IQ Certification, Resources, Membership, and Contact us. Below the menu is a search bar and a list of links for the IQCP Program, including 'About the IQCP Program', 'Why Choose the IQCP Credential?', 'Exam Blueprint and Topics', 'Eligibility Requirements', 'Exam Dates, Certification Fees and Exam Locations', 'Applying, Paying for and Taking the Exam', and 'Preparing for the Exam'. The main content area features the 'IQCP' logo and a section titled 'About the IQCP Program' which describes the credential's objective and benefits. A sidebar on the left contains a 'Google Custom Search' box and a list of links for the 'IQ Certified Professional' section. The footer of the page includes an error message: 'Error on page.'

Thank You – Questions?



C. Lwanga Yonke
Christian Walenta
John R. Talburt

**International Association for
Information and Data Quality**

Email: iqcp@iaidq.org

Phone: +1 813-704-0596

URL: iaidq.org

LinkedIn: linkedin.iaidq.org

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Appendix – IQCP Tasks

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IQ Strategy and Governance

- Develop information quality strategy and roadmap to manage information as an asset
- Define information quality principles, policies and standards to guide decision making and organizational behaviors
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IQ Environment and Culture

- Develop people at all levels in information quality to create organizational knowledge, skills and capabilities
- Establish recognition practices to sustain the information quality environment and culture
- Embed information quality values and methods into business operations to achieve desirable behaviors
- Establish information quality accountabilities and roles to enable effective decision making and process execution
- Educate stakeholders in information quality to raise awareness and drive cultural adoption

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IQ Value and Business Impact

- Evaluate data and business issues to increase the value of information assets
- Define and prioritize information quality initiatives and projects to provide the basis for investment decisions
- Obtain decisions to sponsor and execute information quality initiatives and projects
- Provide stakeholders with results of these quality initiatives and projects to demonstrate the value to the business

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Information Architecture Quality

- Participate in establishing data standards and rules for information architecture to achieve understanding and usage of information throughout the enterprise
- Assess the quality of information architecture components to identify defects
- Lead improvement processes to drive quality, stability and reuse of the information architecture
- Coordinate ongoing maintenance of business meta data to assure consistent data usage and meaning

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IQ Measurement and Improvement

- Gather additional business and data quality rules to complete the understanding of business requirements
- Determine data quality targets by reviewing business objectives to prioritize improvement efforts
- Measure actual data quality levels to identify data and process improvement opportunities
- Determine root causes of issues to identify most effective way to fix and prevent the problem
- Coordinate implementation of improvement efforts to eliminate data errors and resolve data issues
- Improve processes and establish controls to permanently eliminate the root causes of problems

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Sustaining Information Quality

- Answer questions about data content to increase business customers' knowledge and understanding of the data
- Continuously monitor and report data quality levels to assure continued health of the data
- Participate in the system development lifecycle to ensure incorporation of information quality practices in IT and business processes
- Participate on data conversion and migration projects to ensure implementation of information quality best practices

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