



Design & Construction
Division
The Global Voice of Quality™

*JOIN US IN BUILDING THE
FUTURE*



Audience

- So how many auditors are there here today?
- How many Design and Construction Members?
- How many
 - manufacturing,
 - Software
 - Design
 - Construction
 - Other



-
- How do you dress for an audit or a presentation?
 - I usually dress for the organization I am visiting



Usual dress for auditing

-



Dress for Construction Audit



WHO ARE WE?

DCD is an international member community of quality professionals involved in the design and construction industry.

Local Members include: Delcan, Parsons Brinckerhoff, AECOM, Bechtel, many others



ASQ's Construction Technical Committee, which was established in 1982, evolved into the Engineering, Architectural, and Construction Division in the early 1990's and then into the Design and Construction Division (DCD) in the mid-1990's. Currently, DCD membership includes many quality professionals from grantee, consultant, and contractor organizations throughout the United States.

Our members are employed by Constructors, Subcontractors, Suppliers, Owners, Government Agencies, Educational Institutions, and Industry Groups

I've listed ones that are pertinent to the Atlanta Area.

WHAT DO WE BUILD?



k5420993 www.fotosearch.com



Homes and Residences

Hotels and Office Buildings

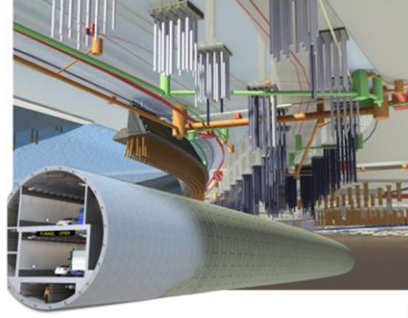
Medical Facilities

Highways, Tunnels and Bridges

Rail Lines

Dams and Canals

Power Plants including nuclear



WHAT ARE WE ABOUT?

VISION

- *To be the World's recognized champion and leading authority on all issues related to quality in the design and construction community and its customers.*

MISSION

- *To advance individual performance excellence worldwide by providing opportunities to members for learning, quality improvement, and knowledge exchange.*



Although we started as a technical committee, we've grown to **over 1100** members in the DCD with 15% from countries outside the United States and Canada. 158 are from other countries; 23 members from the United Arab Emirates, 13 Saudi Arabia, 12 from Mexico, 12 from Nigeria.

There are over 105,000 registered architects in the United States alone.

Other Professional Associations that are also heavily involved in Design and construction that we are beginning to partner with:

- ~~American Institute of Architecture (AIA): we have agreement for shared training to give CEU.~~
- ASCE American Society of Civil Engineers. Have construction management and technical requirements
- American Institute of Steel and Construction AISC Certification Standards Committee

Members work with requirements from:

American Association of State Highway and Transportation Officials (AASHTO) – have subcommittee standing committee on performance.

FTA QA guidelines, came to ASQ for participants in the revisions.

WHAT ARE SOME OF OUR CURRENT INITIATIVES?

- **Sponsor two sessions at the WCQI in May 2014**
- **Attend local Section meetings and introduce quality in Design and Construction**
- **Host a track of speakers at the ASQ Charlotte Chapter Conference on April 8, 2014**
- **Participate with Audit Division in their conference in 2015.**
- **Attendance at other organization conferences to promote quality within the industry**
- **LinkedIn discussion group**



The ASQ Design and Construction Division has sponsored two sessions at the World Conference for Quality and Improvement May 4-7 in Dallas:

Meeting Customers' Expectations in Complex Programs - Using the Fort Worth Independent School District 2007 Capital Improvement Program as a case study, the program manager, client, an architect, and a general contractor will discuss how the team worked together to meet customer expectations.

Establishing and Maintaining Long-term Client Relationships - Robert F. Pence, PE, BCEE, president and CEO of the Baldrige winning A/E firm Freese and Nichols will address the conference at large, Monday, May 5, from 12:15 to 1:15, describing F&N's approach to the Baldrige criterion, Customer Focus.

April 8th - DCD track and tour during the Quality Conference of the Carolinas Charlotte Section 110 on April 8th, 2014

Audit conference : last one Oct 2013; next one Oct 2015

Over 1000 on discussion group on LinkedIn

Construction Quality Manager BOK CURRENT APPROACH

- Section 1 – Company / agency wide quality topics**
 - Corporate Quality Plans
 - ISO 9000
 - Customer Satisfaction
 - Ethics
 - Design Quality
- Section 2 – Material testing labs quality topics**
 - Lab Standards
 - Inspection and Test Plans
 - Inspector Qualifications
 - Non-conforming Work
 - Work Acceptance
- Section 3 – Production level quality topics**
 - Drawings & Specifications
 - Documented Standards
 - Workmanship Standards
 - Statistical Process Control



There are currently 17 ASQ Certifications available. First was CQE in 1968, 5th was CQA in 1987.

ISO Standards

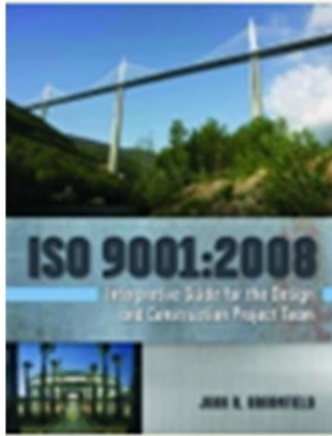
ISO 9001

ISO14001

ISO26000 Social Responsibility Use Technical Advisory Group responsible to ANSI, working group to develop international standard.

The Interpretive Guide for the Design and Construction Team

by the Design & Construction Division of ASQ



Relates the generically worded clauses of ISO 9001 to the responsibilities of the:

- Owner/Project Manager
- Designer
- Constructor

Prime members of the project team can now see how to work systematically (apart and together) to meet customer requirements

Call Quality Press at 1 800 248 1946 and ask for E1364



The system requirements include cycles of:

*Understanding the needs of customers

*Establishing policy and objectives to efficiently meet those needs *Planning the QMS to meet the objectives *Investing in resources (including competent employees)

*Translating customer needs into product requirements *Planning processes for ensuring customer requirements will be met

Future City Competition Winners



2011



2012



The Future City Competition is a national, project-based learning experience where students in 6th, 7th, and 8th grade imagine, design, and build cities of the future. Students work as a team with an educator and engineer mentor to plan cities using SimCity™ 4 Deluxe software; research and write solutions to an engineering problem; build tabletop scale models with recycled materials; and present their ideas before judges at Regional Competitions in January. Regional winners represent their region at the National Finals in Washington, DC in February.

WHY SHOULD I JOIN DCD?



Share my reason for joining ASQ

As a quality professional in any division, opportunity for networking,

the opportunity to learn and advance your career through your association and contact with the top experts in the field.

opportunity to contribute your input to industry standards and practices, get published or speak at a national conference.

You'll have an opportunity to promote quality and make a difference.

DCD Resources

DCD's website (www.asq.org/design) has an archive of articles and Internet links on information on design and construction quality.

Our website is periodically updated to provide a listing of upcoming events (conferences, seminars, etc.) that may be of interest to the quality professional in the design and construction industry.



Newsletter

DCD's newsletters provides articles on emerging technology, "best practices", lessons learned and news relative to the design and construction industry.

The ASQ Newsletter for the Design & Construction Division
Spring 2004


DCD QUALITY CONNECTIONS

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Vision: To be the World's recognized champion and leading authority on all issues related to quality in realizing and maintaining the built environment by the design and construction community and its customers.

Mission: The Design and Construction Division shall advance individual performance excellence worldwide by providing opportunities to members for learning, quality improvement, and knowledge exchange

DESIGN  CONSTRUCTION DIVISION

www.asq.org/div Page 1



Social Media LinkedIn.com

- Active LinkedIn.com page
- 1300 members
- Discussions
- Promotions
- Jobs
 - [Transportation Program Manager](#)
 - [Corporate Quality Manager](#)
 - [Project Construction Manager](#)
 - [Director of Quality Management](#)
 - [Vice President of Program & Construction Management](#)
- Members network



HOW CAN I GET INVOLVED?

Attend our annual membership meeting at the WCQI. Next meeting May 2014 Dallas, TX.

Serve on a committee or submit an article to the newsletter.

Contact anyone on the Division Management Committee (listed on our website).

Join our Monthly Business Conference Calls held every third Thursday at 12 PM EST.

Discussion boards



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