

# CHAPTER 5 QUALITY CONTROL AND QUALITY ASSURANCE

#### 5.1 QUALITY CONTROL and QUALITY ASSURANCE

Quality Control and Quality Assurance are integrated into all aspects of bridge inspection. They contain the essential requirements to demonstrate that care, skill and diligence is used in the preparation of bridge inspection reports.

The Bridge Inspection Unit will put in place those management tools needed to define, implement, and evaluate the effectiveness of the Unit, to provide feedback for performance enhancement and institute actions to prevent recurrence. Together these activities ensure that:

- Personnel have the appropriate tools and information available to perform the work.
- Personnel have clearly defined programs, processes, and procedures as a basis to perform their work
- Personnel are sufficiently trained to assure good work performance
- Appropriate management oversight is provided for work performance to identify and correct problems if they exist

Quality Control is the checks necessary to maintain a uniform level of quality. For the purposes of this Chapter, the District Bridge Inspection Engineer (DBIE) is the Quality Control Engineer who performs these checks.

Quality Assurance is an independent evaluation of a service (i.e., an inspection) to establish that a predescribed level of quality has been met. For the purposes of this Chapter, the Area Bridge Inspection Engineers (ABIE) and the Underwater Operations Engineer are the Quality Assurance Engineers who perform these evaluations. The Quality Assurance Supervisor is the Bridge Inspection Engineer (BIE).

The review for the Quality Control and Quality Assurance program shall include the Bridge Inspection Engineer, the Area Bridge Inspection Engineer, Underwater Operations Engineer and the District Bridge Inspection Engineer.

Note: At the discretion of the Bridge Inspection Engineer others within the MassDOT staff and/or Consultants may be designated to assist in reviewing material.

#### 5.2 QUALITY CONTROL ENGINEER

The Quality Control Engineer's responsibilities include but are not limited to the review of the inspection reports, review of the inspection methods by the teams in field and the review of structures that are classified as structurally deficient (SD) by the Team Leaders.

#### 5.2.1 Inspection Report Evaluations

The Quality Control Engineer and his/her assistant shall collectively review 100% of all inspection reports. The DBIE or ADBIE will sign all inspection reports reviewed by him/her. This review will be

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United States. Naval Facilities Engineering Command. Inspector General

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Construction Inspection Handbook James J. O'Brien, 2013-04-17 In addition to quality control QC this book introduces the concept of quality assurance QA Quality assurance has a number of definitions but in general is the combination of the quality assurance plan with procedures through which the quality control inspector can inspect in the field The book is arranged in categories so that is can be used in handbook fashion each section stands independent of the others The arrangement of the major portion of the book is organized in the same format as we usually find in building construction specification the Construction Specifications Institute CSI format **Quality Assurance** Carter, C. L. and Associates, 1968

Quality Assurance, Quality Control and Inspection Handbook C.L. Carter, Jr. & Associates,1979 Quality Assurance, Quality Control & Inspection Handbook C.L. Carter, Jr. & Associates,1966 Construction Inspection Handbook James J. O'Brien,1997-08-31 Since the publication of the third edition in 1989 changes in quality control assurance have affected the construction industry This new fourth edition includes revised and new material relating to Section A specifically Total Quality Management ISO 9000 and quality control The Codes and Standards Section Contract Documents and Legal Documents Sections have also been extensively updated Construction Inspection Handbook systematically reinstates the importance of quality by providing you with a comprehensive quality assurance plan At the same time this ensures that your construction projects meet contract specifications comply with Construction Specification Institute standards and conform with safety requirements and legal codes Quality Assurance, Quality Control & Inspection Handbook C. L. Carter, 1984

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