



CERTIFICATION PROGRAMS

Supplemental Requirements for Fracture Control Endorsement for Bridge Fabricators (FCEB)

Preface

The 2024 revision is not a complete revision of the *Supplemental Requirements for Fracture Control Endorsement for Bridge Fabricators (FCEB)*. The following changes have been made in this revision:

Section 1 Before Your Audit

- No Changes

Section 2 During Your Audit

- FC2.2 Revision
- FC2.3 Revision
- FC2.4 Revision

This document (hereinafter referred to as the *Supplements*) provides the additional requirements for the Certification Program Fracture Control Endorsement for Bridge Fabricators (FCEB) (hereinafter referred to as the *Program*).

Section 1 Before Your Audit

- FC1.1 All Participants and Applicants are required to have available and comply with these *Supplements* and the *Governing Requirements for Certification Programs* (hereinafter referred to as the *GRs*).
- FC1.2 This *Program* is an endorsement and requires concurrent certification(s) to:
- Certified Bridge Fabricators (all categories: SBR, IBR, ABR), OR
 - Certified Highway Component Manufacturers (CPT)
- FC1.3 This *Program* uses Chapter 4.F of the *Standard for Certification Programs* (hereinafter referred to as the *Standard*) as the normative document. Whenever there is a conflict between the *Supplements* and the *Standard*, the *Supplements* shall govern.
- FC1.4 Applicants to this *Program* must submit an application, payment, and all documents required by the *Application Document Submittal for AISC Certification—Fabricators and Manufacturers*.



CERTIFICATION PROGRAMS

Section 2 During Your Audit

- FC2.1 The current edition of AASHTO/AWS D1.5M/D1.5, *Bridge Welding Code*, is required. (Note: Other editions may also be required by existing participant contracts.)
- FC2.2 Participants and Applicants will be audited and evaluated to ensure compliance with the current AASHTO/AWS D1.5M/D1.5, *Bridge Welding Code*, regardless of whether this is required by the sampled contracts and specifications.
- FC2.3 Participants and Applicants renewing or applying for the Fracture Control Endorsement shall maintain the following documents in compliance with Clause 12, AASHTO/AWS D1.5M/D1.5, *Bridge Welding Code*, for Fracture Control Plan for Nonredundant Members and have them available for review during each audit:
1. One representative Welding Procedure Specification (WPS)
 2. Supporting Procedure Qualification Record (PQR) when required
 3. Welder Qualification Test Record (WQTR) maintained current and qualified with records of period of effectiveness

Submittal of PQRs, WPSs, or WPQRs does not constitute approval by AISC or QMC. The applicant or participant is responsible for preparing and maintaining documents conforming to the applicable welding code.- Reference AASHTO/AWS D1.5:2020 Clause 7, et al.

- FC2.4 Participants and Applicants renewing or applying for this Program shall demonstrate capability to produce bridge or bridge and highway component work that meets the requirements of Clause 12, AASHTO/AWS D1.5M/D1.5, *Bridge Welding Code*. This may be achieved by providing quality records of work in progress at the time of the audit or completed within the past two years (work must have been self-performed). If the participant has not produced this type of work within the past two years, then its capability shall be demonstrated by running a job or a portion of a job as if it met Fracture Critical (FC) requirements in accordance with Clause 12, AASHTO/AWS D1.5M/D1.5, *Bridge Welding Code*. This is in addition to the eligibility requirements of the *Standard* Chapter 4.F. A "portion" of a job must include a welded connection and all the other details associated with a member identified as Fracture Critical. This includes but is not limited to shop drawings, material, welding, inspection, NDT, cutting, etc., as addressed in clause 12.

From the Standard Chapter 4.F:

"The fabricator shall have either:

- (a) Supplied fracture-critical members in accordance with AWS D1.5 within the last five years, or*
- (b) Established a documented training program for the purpose of communicating*



CERTIFICATION PROGRAMS

fracture-critical work functions to the work forces, and demonstrated capability to fabricate fracture-critical members.”

- FC2.5 Participants and Applicants renewing or applying for the FCEB shall demonstrate that training has been performed at least annually for the requirements of their Fracture Control Plan and the requirements of Clause 12, AASHTO/AWS D1.5M/D1.5, *Bridge Welding Code*. This training must be documented and available during the audit. This is in addition to the eligibility requirements of the *Standard* Chapter 4.F.