

# EXPECTED IMPLEMENTATION JANUARY 2020

## **105 CONTRACTOR QUALITY CONTROL GENERAL REQUIREMENTS.** **(REV 4-11-19) (FA 6-17-19) (1-20)**

SUBARTICLE 105-8.7.1 is deleted and the following substituted:

**105-8.7.1 Plant Manager of QC:** Ensure that the plant manager of QC has at least three years of concrete related experience and the following training certifications:

1. CTQP Concrete Laboratory Technician - Level 1 certificate.
2. CTQP Concrete Field Technician - Level 1 certificate.
3. Concrete Batch Plant Operator certification in accordance with 105-

8.7.4.

As alternatives to these certifications, the Department will accept, one of the following:

- a. Prestressed Concrete Institute (PCI) QC Personnel Certification Level III.
- b. Precast Concrete Pipe, Box Culverts, Drainage Structures or Incidental Precast Concrete Plants Level II QC Inspector Certifications.
- c. National Ready Mixed Concrete Association (NRMCA) Certified Concrete Technologist Level 2.

SUBARTICLE 105-8.7.4 is deleted and the following substituted:

**105-8.7.4 Concrete Batch Plant Operator:** Ensure that the concrete batch plant operator has a CTQP Concrete Batch Plant Operator Certification. As an alternative, the Department will accept the following certifications:

- a. Precast Concrete Structures Association (PCSA) Batch Plant Operator,
- b. NRMCA Certified Concrete Technologist Level 3, or
- c. NRMCA Plant Manager Certification.

For dry cast concrete pipe and dry cast drainage structures, the Department will accept American Concrete Pipe Association (ACPA) Quality School Level II Certification.

SUBARTICLE 105-8.9.2.1 is deleted and the following substituted:

**105-8.9.2.1 Level I Quality Control Inspectors:** Ensure that the Level I Inspectors have the following certifications:

**105-8.9.2.1.1 Precast Concrete Drainage Technician Level I:** PCI Quality Control Technician Level I certification. As an alternative, a current Precast Concrete Quality Control Technician Level I certification in the respective work area will be accepted.

**105-8.9.2.1.2 Incidental Precast Concrete Technician Level I:** PCI Quality Control Technician Level I certification. As an alternative, a current Precast Concrete Quality Control Technician Level I certification in the respective work area will be accepted.

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**105-8.9.2.1.3 Precast Concrete Pipe Technician Level I:** Precast Concrete Pipe Technician Level I certification.

SUBARTICLE 105-8.9.2.2.1 is deleted and the following substituted:

**105-8.9.2.2.1 Precast Concrete Drainage Technician Level II:**

1. Precast Concrete Drainage Technician Level I, in accordance with 105-8.9.2.1.1.
2. PCI Quality Control Technician Level II certification. As an alternative, a current Precast Concrete Quality Control Technician Level II certification in the respective work area will be accepted.
3. CTQP Concrete Field Technician Level 1, if the plant produces structural concrete in accordance with Section 346.

SUBARTICLE 105-8.9.2.2.2 is deleted and the following substituted:

**105-8.9.2.2.2 Incidental Precast Concrete Technician Level II:**

1. Incidental Precast Concrete Technician Level I, in accordance with 105-8.9.2.1.2.
2. PCI Quality Control Technician Level II certification. As an alternative, a current Precast Concrete Quality Control Technician Level II in the respective work area will be accepted.
3. CTQP Concrete Field Technician Level 1.
4. Level II technicians who will perform quality control of incidental prestressed products must have a current certificate of completion of Section 450 Specification examination.

SUBARTICLE 105-8.9.2.4 is deleted and the following substituted:

**105-8.9.2.4 Additional Requirements for Quality Control (QC) Personnel of Precast Concrete Drainage Structures and Box Culverts, Precast Concrete Pipe, and Incidental Precast Concrete Manufacturing Facilities:**

**105-8.9.2.4.1 Testing Personnel:** Ensure testing technicians meet the requirement of 105-8.7.3.

**105-8.9.2.4.2 Batch Plant Operator:** Ensure the batch plant operator meets the requirement of 105-8.7.4.