

# CPG Pervious Certification Program

(Extracted from the Handbook for Pervious Concrete Certification in Kansas City, Preface)

## 4 Levels CPG Pervious Concrete Certification

**Level 1: CPG Pervious Concrete Technician** (Required for Contractors & Ready Mix Producers, optional and recommended for inspectors, designers, stormwater engineers, architects, civil engineers)

Requirements:

- A) Pass the CPG Pervious Concrete Written Exam with a score of 80% or higher
- B) Complete the Performance Evaluation usually done the same day as the written exam, demonstrating subgrade prep, form placement, the proper use of tools, placement procedure, proper jointing, proper curing, etc.
- C) Pass an individual Performance Evaluation on the individual's 1<sup>st</sup> job or test site, set up by the individual.
- D) Valid for 5 years after receiving the certification.
- E) Re-certification is required within 90 days after the expiration date listed on the wallet card/certification certificate.
- F) Starting January 1, 2012, re-certification applications require 2 hours of continuing education credits on pervious concrete. These hours can be local, regional or national seminars, demo's or workshops on pervious concrete. It is up to the individual to keep records of these continuing education hours to turn in with the re-certification application.

**Level 2: CPG Pervious Concrete Installer** (Upgrade option for Contractors)

Requirements:

- A) Have a current ACI Flatwork Finisher Technician Certificate.
- B) Have a current CPG Level 1 Pervious Concrete Technician Certificate.
- C) Project Experience with successful pervious construction in a minimum of 3 projects, with a total area exceeding 10,000 sq. ft.

**Level 3 CPG Pervious Concrete Craftsman** (Upgrade option for Contractors)

Requirements:

- A) Have a current ACI Flatwork Finisher Technician Certificate
- B) Have a current CPG Level 1 Pervious Concrete Technician Certificate
- C) Have a CPG Level 2 Concrete Installer Certification.
- D) Document work experience constructing pervious pavements exceeding 1,500 hours (not including the 10,000 sq. ft. needed to qualify for the Installer)

**Level 4 CPG Advanced Pervious Concrete Team Certification**

(Optional for Contractor and Ready Mix Team)

Well above and beyond traditional concrete, successful pervious concrete placements require a dedicated team with an excellent relationship between the Ready Mixed Concrete Producer and the Concrete Contractor. The Concrete Promotional Group has assembled an advanced mixture design and construction review for contractor/producer teams looking to advance their pervious concrete construction knowledge. Certification will encompass one producer, one contractor, one pervious concrete mixture, and one placement technique. Upon completion of the process the producer will be provided with a performance and testing certification for the final mixture design. The contractor will be provided with certification of the in-place mixture properties and performance. By completing the certification process a pervious concrete team will have documentation showing the unit weight, strength, and infiltration that will be achieved.

Requirements:

- A) Have a current ACI Flatwork Finisher Technician Certificate
- B) Have a current CPG Level 1 Pervious Concrete Technician Certificate
- C) Complete the Team Review Process outlined below:

**Outline of the Review Process:**

The certification process involves an interactive ½ day series of two test placements (at a location of the team's selection).

- A. Starting mixture provided by producer. The mix is proprietary so it is kept confidential. Only the ready mix producer and Dr. John Kevern will discuss these details.
- B. Contractor will place a 4 cy sample panel. Concrete will be held 45 minutes after batching to simulate field conditions. Inverse slump, ASTM C1688 unit weight, and timed discharge values will be recorded.
- C. The contractor, producer, and CPG representative will discuss consistency, workability, finishability, and discharge capacity. The mixture will then be modified to better meet the desired criteria.
- D. The contractor will then place a second 4 cy sample panel using the modified mixture. Inverse slump, ASTM C1688 unit weight, predicted unit weight, and timed discharge will be measured on the fresh concrete. Cylinders will be created for the compaction density curves for reporting voids, unit weight, permeability, 7 day compressive strength, and 28 day compressive strength for the selected mixture.
- E. The contractor and/or producer is responsible for obtaining at least (3) 4" diameter cores for hardened unit weight and permeability testing at UMKC.
- F. Field infiltration will be performed according to ASTM C1701 on at least five (5) locations.
- G. The performance and testing data will be used to create mixture certification documentation and individual field evaluation documentation.

**Deliverables:**

Deliverables will include a description and summary of the certification process including all testing data for reproduction and transmittal to any interested party.



All certified individuals and companies can be found listed on the CPG Website at [www.concretepromotion.com](http://www.concretepromotion.com).