PERSONNEL QUALIFICATIONS

# Mark J. Haddad | Senior Specialist

## EDUCATION

- Eastern Illinois University
  - Bachelor of Science, Industrial Technology, 2003

## PRACTICE AREAS

- Laboratory Evaluations
- Construction Materials
- Architectural Testing

## REGISTRATIONS

- ACI Certified Aggregate Testing Technician - Level I
- ACI Certified Cement Physical Tester
- ACI Certified Concrete Field Testing Technician - Grade 1
- ACI Certified Concrete Strength Testing Technician
- ACI Concrete Laboratory Testing Technician - Level II
- OSHA 10-Hour Construction Safety
- PCA - Design and Control of Concrete Mixtures

## PROFESSIONAL AFFILIATIONS

- American Concrete Institute

## CONTACT

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## EXPERIENCE

Mark Haddad joined WJE in 2015 with more than ten years of experience in construction materials testing. He has a vast knowledge of raw materials and evaluations from his work with agencies and companies such as the Illinois Department of Transportation, Vulcan Materials, and Lafarge North America.

Mr. Haddad primarily assists departments in sample preparation along with destructive and nondestructive testing. His projects include:

**Construction Laboratory:**
Making and curing of concrete specimens, concrete compressive strength testing, aggregate preparation and testing, and absorption and saturation coefficient

**Structural Laboratory:**
Flexural and transverse breaking strengths, modulus of rupture, weather resistance of slate specimens, and anchor testing

**Petrography Laboratory:**
Lapping and polishing samples for microscopy evaluation and preparing thin sections

**Chemistry Laboratory:**
Fineness testing and grinding specimens for chloride analysis

Mr. Haddad also plays a pivotal role in the aggregate proficiency testing for the Cement and Concrete Reference Laboratory, as well as updating and maintaining the lab's quality assurance accreditation, including ISO 17025 and AASHTO.

## REPRESENTATIVE PROJECTS

**Laboratory Evaluations**

- UHPC Development - Northbrook, IL: Batching and testing of ultra high-performance concrete for precast applications
- Northwestern University, James L. Allen Center - Evanston IL: Load testing
- Autoclaved Aerated Concrete Assessment - Northbrook, IL: Compressive strength, bulk density, and drying shrinkage

**Construction Materials**

- CSX Bridge Pier Impact - Northbrook, IL: Coring and cutting specimens for compressive strength of stone and grout
- Seabrook Station Nuclear Power Plant - Seabrook, NH: Alkali-silica reaction assessment
- Engineering and Testing - Denver, CO: Mixing and grouting specimens at joints for load testing
- Vapor-Reducing Admixtures - Northbrook, IL: Surface moisture, Internal RH readings, and pull-off testing

**Architectural Testing**

- Harvard University, Memorial Hall - New Haven, CT: Slate testing (specimen cutting and prep, absorption, and flexural strength)
- Stone Performance - Testing of stone-faced honeycomb (flexural strength, tensile bond strength, and embedded epoxy anchor strength)