

# DEPARTMENT OF LICENSES AND INSPECTIONS

## AMENDMENTS TO REGULATIONS UNDER SECTION 9-1306 OF THE PHILADELPHIA CODE RELATING TO SPECIAL INSPECTION QUALIFICATIONS

The Department of Licenses and Inspections hereby promulgates the following amendments to Regulations relating to Special Inspector Qualifications under Section 9-1306(3),(4) and (7) of The Philadelphia Code.

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### TITLE 9. REGULATION OF BUSINESSES, TRADES AND PROFESSIONS

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#### **§ 9-1306. Special Inspection Agencies and Special Inspectors.**

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##### (3) Registration of Special Inspection Agencies and Special Inspectors.

(a) General. All agencies performing special inspections must be registered with the department as a special inspection agency for each of the special inspection categories with respect to which the agency intends to perform special inspections. Individuals performing special inspections on behalf of agencies must be registered for, and must hold and maintain the qualifications associated with, each category with respect to which the individual performs special inspections.

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(c) Qualifications. To be registered in connection with a particular special inspection category, special inspection agencies shall meet the qualifications established by this Section.

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#### **§ 9-1306(3)(c)(R) Special Inspections of Fabricated Structural Members**

Special inspections of in-plant fabrication of structural members used in Philadelphia-based construction shall be conducted by Special Inspection Agencies and Special Inspectors registered pursuant to § 9-1306(3).

Exceptions:

1. The fabricator obtains approval from the Department pursuant to Chapter 17 of the Building Code; ~~or~~
2. The fabricator is accredited by International Accreditation Services (IAS) under its Fabricator Inspection Accreditation Program, and a current certificate of accreditation indicating the scope of fabrication accreditation is issued by IAS and is posted on the IAS ~~website.~~  
website; or
3. The fabricator is currently certified by the American Institute of Steel Certification (AISC) and is listed on the AISC website.

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### **§ 9-1306(3)(c)(2)(R) Special Inspections of Commercial Modular Buildings or Components**

Commercial Modular Buildings or Components must be inspected by an agency currently contracted by the Pennsylvania Department of Community and Economic Development performing duties under the Industrialized Housing Act. Agencies performing inspections services must have a current implementing contract with the manufacturer as prescribed in the Pennsylvania Industrialized Housing Act.

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### **§ 9-1306(4) Duties.**

- (a) Availability and Compliance. A special inspector and/or special inspection agency shall have responsibilities as set forth in Chapter 17 of the Building Code and elsewhere in the Codes where special inspections are required.

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### **§ 9-1306(4)(a)(R) Special Inspections of Sprayed Fire-Resistant Materials, Field Applied Thin Film Mastic and Intumescent Fire-Resistant Coatings**

- (.1) Special inspections of spray fireproofing shall be performed in accordance with AWCI Technical Manual 12-A.

(.2) Special inspections of field applied thin film mastic and intumescent fire-resistant coatings shall be performed in accordance with AWC Technical Manual 12-B.

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§ 9-1306(7) Special Inspection Categories and Qualifications. Special inspection work in the following area regulated by Chapters 17 and 33 of the Building Code requires registration pursuant to this Section. Engineers and/or Geologists-in-Training licensed with the Commonwealth of Pennsylvania shall be under the direct supervision of the registered engineer for the specific field of inspection listed.

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(c) The Department is authorized to develop regulations regarding the qualifications of individuals authorized to perform special inspections in special inspection categories pursuant to requirements of the Building Code.

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### § 9-1306(7)(R) Special Inspections and Registration Qualifications

**1. Prohibition.** No person shall perform special inspection work in any of the special inspection categories set forth in this section unless ~~they are~~ registered under Section 9-1306 of the Code.

**2. Engineers and Geologists-in-Training.** An engineer-in-training or geologist-in-training who performs special inspection work must be under the direct supervision of an engineer registered to perform special inspection work in the relevant special inspection category.

**3. Supplemental Inspector.** A supplemental inspector who performs special inspection work must do so under the direct supervision of a primary inspector.

**4. Definition.** A "Professional Engineer" means an engineer licensed by the Commonwealth of Pennsylvania with the required amount of experience in the special inspection category for which the person seeks to be registered.

**5. Registration.** The Department shall register a person in the relevant special inspection category upon demonstration that:

- a. The person meets one or more of the qualifications set forth in section 6 of this Regulation;

- b. The person provides documentation of competency in the relevant category equivalent to the competency that would be established by satisfaction of one or more of the applicable requirements of section 6; or
- c. The person demonstrates registration by another jurisdiction that registers special inspectors in the relevant category based upon qualifications determined by the Department to be equivalent to the applicable requirements of section 6.

**6. Special Inspection Categories and Qualifications.** The qualifications for registration in the following special inspection categories are as follows:

**a. Welding.**

(.1) Current Certified Welding Inspector (CWI) in accordance with the provisions of American Welding Society (AWS) QC1;

(.2) Current American Welding Society (AWS) Senior Certified Welding Inspector (SCWI); or

(.3) Current Certified International Code Council (ICC) S2 Structural Welding Inspector.

Exception: To perform nondestructive testing, the special inspector must meet the requirements of the American Society for Nondestructive Testing (ASNT) Level III or Level II in accordance with SNT-TC-1A or must have completed the ASNT Central Certification Program.

**b. High-Strength Bolting and Steel Frame Installation Inspection.**

(.1) Current International Code Council (ICC) Structural Steel & Bolting Special Inspector certificate;

(.2) Professional Engineer with a minimum of one year of experience in high-strength bolting and steel frame installation; or

(.3) Engineer-In-Training (EIT) with a minimum of two years of such experience.

**c. Reinforced Concrete.**

- (.1) Current International Code Council (ICC) Reinforced Concrete Special Inspector certificate;
- (.2) American Concrete Institute (ACI) Certified Concrete Construction Special Inspector;
- (.3) Professional Engineer with a minimum of one year of experience with reinforced concrete construction; or
- (.4) Engineer-In-Training (EIT) with a minimum of two years of such experience.

**d. Pre-Stressed Concrete.**

- (.1) International Code Council (ICC) Pre-Stressed Concrete Certificate;
- (.2) Pre-Cast/Pre-Stressed Concrete Institute (PCI) Quality Control Technician/Inspector Level II certificate;
- (.3) Professional Engineer with a minimum of one year of experience with pre-stressed concrete construction; or
- (.4) Engineer-In-Training (EIT) with a minimum of two years of such experience.

**e. Pre-Cast Concrete Erection.**

- (.1) Current Certified Welding Inspector [CWI] in accordance with the provisions of American Welding Society (AWS) QC1; or
- (.2) Current International Code Council (ICC) S2 Structural Welding Inspector certificate.

Exception: To perform nondestructive testing, the special inspector must meet the requirements of the American Society for Nondestructive Testing (ASNT) Level III or Level II in accordance with SNT-TC-1A or must have completed the ASNT Central Certification Program.

**f. Post Tension Slabs-on-Ground and Post Tension Concrete.**

- (.1) Current Post-Tensioning Institute (PTI) Certification – Level

2;

(.2) Current International Code Council (ICC) Pre-stressed Concrete Special Inspector certificate;

(.3) Professional Engineer with a minimum of one year of experience with post tension slabs-on-ground and post tension concrete construction; or

(.4) Engineer-In-Training (EIT) with a minimum of two years of such experience.

**g. Post-Installed Concrete Anchor Installation.**

(.1) American Concrete Institute/Concrete Reinforcing Steel Institute (ACI/CRSI) certificate for adhesive anchor installation;

(.2) Professional Engineer with a minimum of one year of experience with post-installed concrete anchor installation; or

(.3) Engineer-In-Training (EIT) with a minimum of two years of such experience.

**h. Structural Masonry.**

(.1) Current International Code Council (ICC) Structural Masonry certificate;

(.2) Professional Engineer with a minimum of one year of experience with structural masonry; or

(.3) Engineer-In-Training (EIT) with a minimum of two years of such experience.

**i. Wood Construction.**

(.1) Professional Engineer with a minimum of one year of experience with wood construction; or

(.2) Engineer-In-Training (EIT) with a minimum of two years of such ~~experience.~~ experience; or

(.3) Holder of current certifications as International Code Council (ICC) Tall Mass Timber Inspector and ICC Building Inspector.

**j. Soils -- Existing Site Soil Conditions, Fill Placement and Load-bearing Capacity of Soils.**

(.1) Current National Institute for Certification in Engineering Technologies (NICET) Level II certification in Geotechnical Engineering Technology/Construction;

(.2) Current NICET Level II soils certificate in Construction Materials Testing;

(.3) Current International Code Council (ICC) Soils Special Inspector certificate;

(.4) Professional Geologist or Professional Engineer licensed in the Commonwealth of Pennsylvania with a minimum of one year of experience with existing soil conditions, fill placement and load-bearing capacity of soils; or

(.5) Engineer-In-Training (EIT) or Geologist-in-Training (GIT) with a minimum of two years of such experience.

**k. Deep Foundations and Helical Pile Foundations.**

(.1) Current National Institute for Certification in Engineering Technologies (NICET) Level II certificate in Geotechnical Engineering Technology/Construction;

(.2) Current NICET Level II soils certificate in Construction Materials Testing;

(.3) Federal Highway Administration – National Highway Institute Drilled Shafts Course;

(.4) Federal Highway Administration - National Highway Institute Course Certificates for “Drilled Shafts” and “Driven Pile Foundation Inspection,” with a minimum of one year of experience with deep foundations and helical pile foundations;

(.5) Professional Geologist or Professional Engineer licensed in the Commonwealth of Pennsylvania with a minimum of one year of such experience; or

(.6) Engineer-In-Training (EIT) or Geologist-in-Training (GIT) with a minimum of two years of such experience.

**I. Sprayed Fire-Resistant Materials and Mastic and Intumescent Fire-Resistant Coatings.**

(.1) Current International Code Council (ICC) Spray-Applied Fire Proofing certificate;

(.2) Architect registered with the Commonwealth of Pennsylvania with a minimum of one year of experience with sprayed fire-resistant materials and intumescent fire-resistant coatings;

(.3) Professional engineer with a minimum of one year of such experience; or

~~(.3)~~ (.4) Engineer-In-Training (EIT) with a minimum of one year of such experience.

**m. Exterior Insulation and Finish Systems (EIFS).**

(.1) Association of the Wall and Ceiling Industry (AWCI) EIFS Inspector Certificate;

(.2) Architect registered with the Commonwealth of Pennsylvania with a minimum of one year of experience with exterior insulation and finish systems;

(.3) Professional engineer with a minimum of one year of such experience; or

(.4) Engineer-In-Training (EIT) with a minimum of two years of such experience.

**n. Smoke Control Systems – Primary Inspector.**

(.1) Professional Engineer with a minimum of one year of experience with smoke control systems.



**o. Smoke Control Systems – Supplemental Inspector.**

- (.1) Certification as an air balancer from one of the following:
  - (.a) Associated Air Balance Council (AABC);
  - (.b) Testing & Balancing Bureau (TABB);
  - (.c) National Environmental Balancing Bureau (NEBB); or
  - (.d) National Balancing Council (NBC).

**p. Structural and Non-Structural Seismic Resistance.**

- (.1) Professional Engineer with a minimum of one year of experience with structural and non-structural seismic resistance; or
- (.2) Engineer-In-Training (EIT) with a minimum of two years of such experience.

**q. Test Safe Loads, In-Situ Load Tests and Preconstruction Load Tests.**

- (.1) Professional Engineer with a minimum of one year of experience with test safe loads, in-situ load tests and preconstruction load tests.

**r. Structural Steel Fabrication.**

- (.1) Current Certified Welding Inspector (CWI) in accordance with the provisions of American Welding Society (AWS) QC1; or
- (.2) Current International Code Council (ICC) S1 or S2 Structural Welding Inspector.

Exception: To perform nondestructive testing, the special inspector must meet the requirements of the American Society for Nondestructive Testing (ASNT) Level III or Level II certification in accordance with SNT-TC-1A or ASNT Central Certification Program.

**s. Pre-Cast Concrete Fabrication.**

(.1) Current International Code Council (ICC) Reinforced Concrete certificate; or

(.2) Pre-Cast/Pre-Stressed Concrete Institute (PCI) Quality Control Technician/Inspector Level II certificate; or

(.3) American Concrete Institute (ACI) Concrete Field Testing Technician – Grade 1 Certification.

**t. Engineered Wood Product Fabrication.**

(.1) Professional Engineer with a minimum of experience with engineered wood product fabrication.

**u. Fire Resistant Penetrations and Joints.**

(.1) Professional Engineer with a minimum of one-year experience with inspecting fire-resistant penetrations and joints; or

(.2) Current Underwriters Laboratories (UL) Firestop Examination Certification; or

(.3) Current Factory Mutual (FM) Firestop Examination Certification; or

(.4) Current International Firestop Council (IFC) Third-Party Firestop Inspectors Certification.

**v. Commercial Modular Buildings or Components Inspectors**

(.1) Inspectors shall be in the possession of current PA Labor & Industry certifications in the following inspection categories:

(.a) Building Inspector

(.b) Energy Inspector

(.c) Electrical Inspector

(.d) Accessibility Inspector

(.e) Mechanical Inspector

(.f) Plumbing Inspector

(.2) Professional Engineer with a minimum of one-year experience inspecting commercial modular buildings or components.

**w. Structural Stability of Existing Buildings or Structures- Primary Inspector**

(.1) Professional Engineer with a minimum of one-year experience inspecting or monitoring direct or indirect alterations to existing structural systems.

**x. Structural Stability of Existing Buildings or Structures - Supplemental Inspector**

(.1) Bachelor's Degree in Civil or Structural Engineering from an accredited institution or an equivalent degree and a minimum of two years of relevant experience.