

BUILDING OFFICIALS ASSOCIATION OF FLORIDA  
CROSS TRAINING PROGRAM  
SYLLABUS

PROGRAM NAME: Plumbing Plans Examiner Training Program  
COURSE NUMBER: 5007988

PROVIDER: #0001001  
Building Officials Association of Florida, Inc. 528  
West Lake Mary Boulevard  
Sanford, Florida 32773

**PROGRAM TIMETABLE:**

Section 1 Coursework - (Online self-paced, instructor monitored)	20 Hours
Section 2 Coursework - (Online self-paced, instructor monitored)	20 Hours
OJT (ride along with qualified field inspector)	<u>160 Hours</u>
Total Program Hours	200 Hours

Note: See expanded timeline in the course outline section

**ACHIEVEMENT BENCHMARKS:**

**Section 1** (20 hours) self-paced study is presented in a series of modules designed to familiarize the student with terms, definitions, and organization of the code volume being studied. Associated laws and rules and ethics may also be studied in this phase. This phase of the program includes online courses that lead the student through the code volume and may include relevant video clips. Research assignments must be completed and submitted for review by the program instructor. Participation in this phase is recorded in our online campus software database. The instructor is available during this phase via messaging or telephone to answer any questions that the student may have. Traditional classroom hours may be substituted for some or all online hours on a one-for-one basis upon approval of the instructor.

**Section 2** (20 Hours) studies are presented as a series of subject matter modules using a traditional classroom multi-media instruction method. Each module presented will include a review of the relevant code provisions and provide explanations of the principles and concepts behind the code. Students must complete all of the modules in this phase of the program, as evidenced by an attendance sheet maintained by the instructor. Participation in this phase may be by in-person attendance or distance attendance using our online virtual classroom.

**OJT** (160-Hours) studies will be accomplished by the student accompanying a qualified plans examiner/ instructor on plan reviews. It will be the instructors' responsibility to explain each plan review to the student, sharing plan review techniques as well as mandatory code compliance plan review requirements. A log of plan reviews completed each day shall be kept by the student on a form provided by BOAF. Each form shall include the date of the training, number of hours spent alongside a plans examiner, and the subject matter reviewed. A list of code topics to be include in this phase shall be provided. At least seventy five percent of the topics on the list must be included in the OJT phase. Each daily log must be completed and signed by the student and the OJT instructor.

### **INSTRUCTOR QUALIFICATIONS:**

Classroom and OJT instructors shall meet the following qualifications:

1. A plans examiner or inspector may teach a course within the scope of his/her license.
2. A four-year college degree or graduate degree in their area of study.
3. A state certified contractor with at least five (5) years of experience in their technical area of licensure.
4. A substantially qualified authority may teach courses within his/her area of expertise.

Potential instructors must submit a resume containing a summary of their qualifications and Florida certification numbers issued by a state agency.

### **PURPOSE:**

This program is offered by Building Officials Association of Florida (BOAF) as an alternative eligibility path to certification in an additional category for participants that qualify per **61G19-7.001(1)** through a comprehensive training program designed to familiarize the student with the provisions of the Florida Building Code relevant to this category, associated laws and rules, inspection techniques and ethical conduct.

### **PROGRAM PARTICIPANTS:**

Participants in this program must meet the requirements of 61G19-7.001(1)

### **PARTICIPANT EVALUATION:**

Participants shall be evaluated throughout the program as follows:

1. Assignment submittals will be evaluated by the instructor for completeness, effort and accuracy.
2. Quizzes will be administered periodically during the online and classroom phases of the program.
3. Instructors shall complete an evaluation of the students participation in the classroom and OJT phases of the program.

### **PROGRAM REQUIREMENTS:**

The program has two distinct components:

1. 40 Hours of structured instruction in a Blended Learning Program that includes Monitored Online Training, Research Assignments, and Instructor Led Classroom Training
2. 160 Hours of structured "On-the-Job" training

Reference materials shall include:

1. FBC-Plumbing Volume
2. FBC-Residential Volume
3. FBC-Existing Building Volume
4. FBC-Accessibility Code Volume
5. FBC-Energy Code Volume
6. Florida Laws and Rules (112, 469, 471, 481, 489, 553, 713)

## **DOCUMENTATION**

The following documents are required to be submitted to BOAF upon completion of training:

1. Application for Admission to the Program (Submitted by the student prior to beginning training)
2. Classroom Instructor Qualification Forms (Completed by BOAF)
3. OJT Instructor Qualifications Forms (Submitted by the student with the application for potential OJT instructors)
4. Instructors Evaluation and Certification (Completed and submitted by the student's satisfactory completion of requirements)
5. OJT Daily Plan Review Log (Completed for each day of training during the OJT Phase)
6. Student's Affidavit of Program Completion (Submitted with OJT documents when all training is complete)
7. Post Application

## **PROGRAM COMPLETION CERTIFICATE:**

A Program Completion Certificate will be issued to the participant by BOAF upon determination that all of the training requirements have been met and documented.

## **PROGRAM OVERSIGHT**

Administration of this program is the responsibility of BOAF staff, with oversight by the BOAF Certification Committee.

# **BUILDING OFFICIALS ASSOCIATION OF FLORIDA CROSS TRAINING PROGRAM**

## **Plumbing Inspector Cross Training Program Course List**

This program is offered online in three sections: Section One is twenty hours of credit online. Section Two is also twenty hours of credit online. Section Three is On-The-Job Training for one hundred and sixty hours.

To complete the online sections of the Plumbing Inspector Cross Training Program, the student must complete both Section One and Section Two. Courses are specified as follows:

### **SECTION ONE – 20 Hours**

This section provides basic information important to inspectors, including inspector skills, ethics, law, and other pertinent topics.

#### **Developing Inspector Skills Course: 7 hours - *(This course is a required course for all Cross Training Programs)***

Course Description: This course addresses the soft skills that are essential for construction inspectors to excel in their mission to ensure safe, code-compliant buildings for the public. After completing this course, participants will be able to exhibit non-technical traits, positive behaviors, and problem-solving skills to enhance their ability to interact with others and carry out effective communication, diplomacy, customer service and public relations skills.

#### **Ethics in Construction Course: 1 hour - *(This course is a required course for all Cross Training Programs)***

In this course, students will review ethics and how to deal with the public, the business concerns and the government in a proper and ethical manner.

#### **Laws and Rules for the Building Officials Course: 2 hours - *(This course is a required course for all Cross Training Programs)***

In this course, the student will not only review the existing laws and rules concerning building officials and the building inspector vocation, but also look at new laws and rules.

#### **Special Piping, Storage Systems and Grey Water Recycling Systems, 2 hours - *(This course is a required course for the Plumbing Inspector and Plans Examiner Cross Training Programs)***

In this course, students will learn about special piping situations, requirements for storage systems, and the code for grey water recycling.

**Florida Building Code for Accessibility and Energy Conservation, 3 hours - *(This course is a required course for the Plumbing Inspector and Plans Examiner Cross Training Programs)***

In this course, students will review Florida Building Code for accessibility issues and Energy conservation.

**Communication Skill, 1 hour - *(This course is a required course for the Plumbing, Mechanical and Electrical Inspector and Plans Examiner Cross Training Programs)***

In this course, the student will learn and practice both written and communication skills necessary for an inspector.

**Roof Drainage and the Sizing of Water System Piping, 2 hours - *(This course is a required course for the Plumbing Inspector and Plans Examiner Cross Training Programs)***

This course addresses both standard pipe sizing and the elements of roof drainage in code and regulations.

**Inspection and Plan Review Techniques, 2 hours - *(This course is a required course for the Plumbing, Mechanical and Electrical Inspector and Plans Examiner Cross Training Programs)***

In this course, students learn the tricks and techniques for reviewing plans as well as specific techniques for successfully completing inspections.

**SECTION TWO – 20 Hours**

Section Two provides specific information from the International Code.

**Introduction to Section Two, 1 hour**

**General Regulations, Plumbing Inspector, 2 hours**

**Fixtures, Faucets and Fixture Fittings, 2 hours**

**Water Heaters, Water Supply and Distribution and Sanitary Drainage, 5 hours**

**Indirect/Special Waste, Vents and Traps, 4 hours**

**Storm Drainage, 2 hours**

**Florida Building Code for Existing Volume, Residential and fuel and Gas, 4 hours**

**SECTION THREE – 160 Hours**

Section Three provides documented on-the-job training for the student candidate. On-the-job training is verified by the BOAF Certification Committee prior to awarding credit.

**WORK EXPERIENCE**

**This section must be completed fire marshal, or building code administrator, who has personal knowledge of the applicant's experience for the period of time listed below.**

**Instructions:**

Provide employment verification for the years of experience required for qualification for entrance in the BOAF Cross Training Program. Attach additional copies of this page as necessary.

Applicant Name:

Employing Agency/Company Name:

Agency/Company Address:

Dates of employment by Agency/Company	Date (From) / /	Date (To) / /
---------------------------------------	--------------------	------------------

Agency/Company Phone Number:

Position of Applicant:

**Describe in detail the applicant's duties, including hands-on, supervisory or management responsibilities. Please be specific when explaining the applicant's duties and hands-on experience.**


I attest that the applicant named above has been employed by the agency/company in a: **(Check One)**  
supervisory   managerial   trade position for \_\_\_\_\_years

Print name of fire marshal, or building code administrator  
verifying employment and experience: \_\_\_\_\_

License Number of person verifying employment and experience: \_\_\_\_\_

Signature of person verifying employment and experience: \_\_\_\_\_

Date: \_\_\_\_\_

**CROSS TRAINING  
PLUMBING PLAN REVIEW OJT CHECKLIST**

BCAIB Provider# 0001001

Training Program #5007988

**Applicant Name:** \_\_\_\_\_

ONLY THE CURRENT EDITION OF THE BOAF OJT CHECKLIST WILL BE ACCEPTED

Please check the website at [www.boaf.net](http://www.boaf.net) to be sure you are submitting the most current edition of the applicable form. Each form becomes effective on the revision date contained on the form. Training completed prior to that date may be submitted on the previous form.

This training program requires 40 hours (minimum) of classroom training as approved by BOAF.

This training program also requires 160 hours (minimum) of properly documented On the Job Training (OJT) with a **Florida Standard Licensed Plumbing Plans Examiner** Trainer as evidenced by this and other required forms, including the notarized trainer's affidavit.

**A. Extensive training on all aspects of plumbing systems should include both residential and commercial sections of the code as scripted by the following:**

- |   |                              |
|---|------------------------------|
| 1. Administration                       | 7. Indirect/Special Waste    |
| 2. General Regulations                  | 8. Vents                     |
| 3. Fixtures, Faucets & Fixture Fittings | 9. Traps                     |
| 4. Water Heaters                        | 10. Storm Drainage           |
| 5. Water Supply & Distribution          | 11. Fuel Piping              |
| 6. Sanitary Drainage                    | 12. Special Piping & Storage |

**B. Trainees must mark each item trained on, and initial in the spaces provided on the OJT checklist, when each training segment has been completed.**

**C. Trainees must also include the approximate percentage of the total number of hours spent in OJT for each segment**

**CROSS TRAINING  
PLUMBING PLAN REVIEW OJT CHECKLIST**

BCAIB Provider# 0001001

Training Program #5007988

**PLUMBING PLAN REVIEW OJT CHECKLIST**

My specific On the Job Training (OJT) has included instruction on the following items as indicated by "X"

**Plumbing Trade Plan Review Checklist:**

- |   |  |
|---|--|
| <input type="checkbox"/> Materials                          | <input type="checkbox"/> Rodent proofing                     |
| <input type="checkbox"/> Protection of Pipes & Components   | <input type="checkbox"/> Trenching, Excavation & Backfill    |
| <input type="checkbox"/> Structural Safety                  | <input type="checkbox"/> Piping Support                      |
| <input type="checkbox"/> Flood-proofing                     | <input type="checkbox"/> Washroom & Toilet Room Requirements |
| <input type="checkbox"/> Toilet Facilities                  | <input type="checkbox"/> Public Food Service Establishments  |
| <input type="checkbox"/> Minimum Plumbing Facilities        | <input type="checkbox"/> Potty Parity                        |
| <input type="checkbox"/> Unisex                             | <input type="checkbox"/> Accessible Plumbing Fixtures        |
| <input type="checkbox"/> Fixture Clearances                 | <input type="checkbox"/> Fixtures                            |
| <input type="checkbox"/> Specialty Plumbing Fixtures        | <input type="checkbox"/> Water Heaters                       |
| <input type="checkbox"/> Safety Devices                     | <input type="checkbox"/> Insulation                          |
| <input type="checkbox"/> Water Service                      | <input type="checkbox"/> Distribution System                 |
| <input type="checkbox"/> Joints & Connections               | <input type="checkbox"/> Protection of Potable Water Supply  |
| <input type="checkbox"/> Health Care Plumbing               | <input type="checkbox"/> Disinfection                        |
| <input type="checkbox"/> Water Treatment                    | <input type="checkbox"/> Well Pumps & Tanks                  |
| <input type="checkbox"/> Building Sewer                     | <input type="checkbox"/> Drainage Piping                     |
| <input type="checkbox"/> Cleanouts                          | <input type="checkbox"/> Fixture Units                       |
| <input type="checkbox"/> Drainage System Sizing             | <input type="checkbox"/> Offsets                             |
| <input type="checkbox"/> Sumps & Ejectors                   | <input type="checkbox"/> Computerized Drainage Design        |
| <input type="checkbox"/> Backwater Valves                   | <input type="checkbox"/> Indirect Wastes                     |
| <input type="checkbox"/> Special Wastes                     | <input type="checkbox"/> Vent Stacks & Stack Vents           |
| <input type="checkbox"/> Vent Terminals                     | <input type="checkbox"/> Vent Connections & Grades           |
| <input type="checkbox"/> Common Vent                        | <input type="checkbox"/> Individual Vent                     |
| <input type="checkbox"/> Wet Venting                        | <input type="checkbox"/> Fixture Vents                       |
| <input type="checkbox"/> Waste Stack Vent                   | <input type="checkbox"/> Circuit Venting                     |
| <input type="checkbox"/> Combination Drain & Vent System    | <input type="checkbox"/> Island Fixture Venting              |
| <input type="checkbox"/> Relief Vents                       | <input type="checkbox"/> Vents for Stack Offsets             |
| <input type="checkbox"/> Vent Pipe Sizing                   | <input type="checkbox"/> Air Admittance Valves               |
| <input type="checkbox"/> Engineered Vent Systems            | <input type="checkbox"/> Traps                               |
| <input type="checkbox"/> Interceptors & Separators          | <input type="checkbox"/> Roof Drains                         |
| <input type="checkbox"/> Conductors, Leaders & Storm Drains | <input type="checkbox"/> Secondary Roof Drains               |
| <input type="checkbox"/> Combined Sanitary & Storm System   | <input type="checkbox"/> Controlled Flow                     |
| <input type="checkbox"/> Sumps                              | <input type="checkbox"/> Fuel Piping                         |
| <input type="checkbox"/> Special Piping & Storage Systems   |  |

**Approximate percent of total training hours spent on this segment \_\_\_\_\_ % Initials \_\_\_\_\_**



**CROSS TRAINING  
PLUMBING PLAN REVIEW OJT CHECKLIST**

BCAIB Provider# 0001001

Training Program #5007988

**Total Hours OJT Training Received** \_\_\_\_\_ hours

By affixing our signatures below, we affirm the above specific areas of Plumbing Plan Review Training have been successfully completed in compliance with the Cross Training Program.

**Total Hours on All segments** \_\_\_\_\_ hours

Trainee and Trainer(s) should sign this form after all segments of OJT Training has been completed. Include all Trainers that have trained on the hours shown on the Checklist.

Trainee	/ / Date Completed	BCAIB #
Plumbing Plan Review Trainer	/ / Date Completed	Plumbing Plan Review Trainer / / Date Completed
BCAIB # _____		BCAIB # _____
Plumbing Plan Review Trainer	/ / Date Completed	Plumbing Plan Review Trainer / / Date Completed
BCAIB # _____		BCAIB # _____

## BOAF Trainer's Affidavit

This form must be included in the foundation/cross training application package. Every Building and Fire Official overseeing training must sign and have notarized an individual affidavit with their name and the name of the trainee for each trainee under their supervision.

I, \_\_\_\_\_,  
(Printed or Typed Name of Trainer)

**certify that I personally and professionally trained**

I, \_\_\_\_\_,  
(Printed or Typed Name of Trainee)

**to the best of my ability and believe him / her to be competent and knowledgeable in the areas that I have instructed him / her in as indicated on the associated OJT Training Report(s) and OJT Checklist. To the best of my knowledge, the training I provided under the direction of my Building Official meets or exceeds the requirements of the BOAF Cross Training Program as indicated on the associated training forms, checklists and logs in the area of**

\_\_\_\_\_ inspector / plan review  
(fill in technical area and circle the appropriate category)

**Additionally, I state the training provided to the Trainee supports the BOAF Mission Statement and the training was provided in compliance with the BOAF Code of Ethics as adopted by the Building Officials Association of Florida.**

Trainer Signature \_\_\_\_\_ BCAIB # \_\_\_\_\_

Printed Name \_\_\_\_\_ Date \_\_\_\_/\_\_\_\_/\_\_\_\_

Total hours trained \_\_\_\_\_

**SIGNATURE MUST BE NOTARIZED:** Place notary information in this area as required by law:

### ON JOB TRAINING (OJT) REPORT

Applicant Name & BN/PX # (Print) \_\_\_\_\_ Signature \_\_\_\_\_

Trainer Name & BN/PX # (Print)			Signature		
Date of Inspection	Occupancy Classification (FBC)	Permit # or Address	Inspection/Review - Be Specific Provide description from Checklist, Not Just Codes! Use as many rows as necessary	Time (Nearest 1/4 of an hour)	Trainer Approval (must be signed for each training)