

**To: Department of Consumer Protection**

Plumbing and Piping Work Board

From: Continuing Education for Plumbers Subcommittee

Subject : 2018-2019 Continuing Education Curriculum Outline  
For License Types P-1,P-2,P-3, P-4

August 1, 2017

Board Members:

Please find attached a tentative 2018-19 curriculum outline for continuing education for plumbers.  
Class hours to be determined.

Time allotments for each section to be determined when total class time is known.

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1. Water Temperature limitations
    - a. Section 1002.2.2 IMC
    - b. IRC Section P2802.2 Temperature Control
  2. Water heaters used as space heaters
    - a. IPC Section 501.2
  3. Required pan under water heaters.
    - a. Pan requirements
    - b. IPC Section 504.7
    - c. IRC Section P2801.5
    - d. Relief valve discharge ( IPC 504.6. IRC 2803.6.1)
  4. Pans and tankless water heaters and pan drain termination, finished basement requirements
  5. Elevation of water heaters and spark producing equipment in garages
    - a. When and Where Required
    - b. Which Equipment
  6. Third Party Certification (Definitions IPC) (Definitions IRC, Change)
    - a. Third Party Certification Agency
    - b. Third Party Certified
    - c. Third-Party Tested
  7. Changes to FOG requirements ("General Permit for the Discharge of Wastewater Associated with Food Service Establishments") (October 5, 2015)

45 Min.

5 Min.

10 min.

1 hour

8. Requirements of 2015 "Connecticut State Fire Prevention Code" NFPA Codes now in force
  - a. List of codes related to Plumbing
  - b. Clarification of Piping Codes for Natural gas vs. Propane gas piping inside buildings (which code to use and when) IRC, IPC, IMC, NFPA 54, NFPA 58, When and where each is appropriate.
9. CSST requirements for bonding
  - a. IRC Section G2411
  - b. IPC Section (See NFPA 54) Section 7.13
  - c. Bonding by Plumbers (State Building Inspector Interpretation)/(Consumer Protection Clarification)
10. New Gas Purging Regulations
  - a. IRC Section G2417.7
  - b. NFPA 54 Section 8.3

1 hour

11. Connecticut Supplement: Amendments to the 2012 International Plumbing Code. Numerous Changes, Additions and Deletions to IPC. Amendments to 2012 IRC Plumbing and Gas Piping Sections (several AMD, ADD, and DEL)
12. 2015 IPC Significant Changes
  - a. Definition changes
  - b. 308.5 Mid-Story Guides
  - c. 403.1 Determining Minimum number of plumbing fixtures 403.3 required Public Toilet Facilities Exception, 403.4.1 directional Signage 406.1 and 409.2 Backflow Protection, 413.1 food waste disposer approval, 417.4.1 Walls and floors in tubs and showers, 420.1 W/C Approval, whirlpool approval, 423.3 footbaths, Pedicure, 424.8 Deck Mounted Bath/Shower Transfer Valves,
  - d. 501.3 Water Heater Drain Valves, 504.6 Temp. & Pressure Discharge Piping, 504.7.2 Water Heater Pan Drain Lines
  - e. 601.5 Pipe relining, 605.2.1 Lead content, 605.3 CPVC/AL/CPVC Water Service and Water Distribution Piping, Chapter 6 Multiple tables and Sections concerning Pipe and joints, valve compliance Standards, 607.2.1 Hot Water Maintenance Systems, 607.3 Hot Water Expansion Tanks, Nonpotable water Identification,
  - f. 702.5 Temperature Rating of Drainage Piping, 705.11.2 PVC Cement and Primer, 708 Cleanouts, 715.1 Backwater Valves, 716 Vacuum Drainage Systems, 717 Pipe Bursting
  - g. Chapter 8 Food handling /indirect Connection, waste receptors
  - h. Chapter 9, Vent terminations,
  - i. Chapter 10, Traps in Parking Garages, Trap Seal Protection, Gravity Grease Interceptors, Grease Interceptor Discharge, Oil Water Separator Required, Clothes Washer Interceptor, Venting Interceptors
  - j. Chapter 11 Roof Drains, Sizing Gutters and Leaders

- 10 min. { 13. Dryer vents, changes (Do's and Don'ts)
  
- 15 Min. { 14. Permit exempt activities in Building, Plumbing and IRC codes with explanation of changes (Additions, Deletions and Amendments.) Connecticut Supplement. How to access 2016 CT. Supplement
  
- 5 Min. { 15. Geothermal regulations update
  
- 15 Min. { 16. Combustion Air IRC, Chapter 17
  
- 15 Min. { 17. Penetrations of fire rated walls and required fire stop elements
  
- 5 Min. { 18. Posting of inspections
  
- 15 Min. { 19. Changes from Dept. of Health/DEEP regarding dry wells for Low Flow Wastewater Treatment.
  
- 5 Min. { 20. Update on Apprentice Ratio changes (DOL)
  
- 35 Min. { 21. CT. Supplement: IECC
  - a. (ADD) R101.5.3 Energy efficiency standards for products, Sec. 107.3 (DEL) Work commencing before permit issuance, Sec. R402.4.1.2 Testing (HVAC Blower Door Test)
  - b. Sec. 403.2.1.1 (ADD) Duct insulation values,
- 22. IECC: Residential Sections R403.4 to R403.4.2 , (Pipe Insulation) (changed)
- 23. IECC:
  - a. Commercial, Sec. C404.5 to Sec. C404.7.3 Pipe insulation, Hot water systems control, pools and spas, Heaters, time switches, covers (Sections changed)

1 Hour

24. 1 Hour, Top OSHA Violations for the last year. (Focus 4)

- a. Fall Hazards
- b. Ladders
- c. Struck-by

30 Min.

25. Med Gas NFPA 99

**\*This content outline must be followed by all providers for the 2018-2019 cycle in conjunction with the power point presentation, appendix, and completed provider application, which can be found at [www.ct.gov/dcp](http://www.ct.gov/dcp).**