



2018 ASPE Texas Certified in Plumbing Design (CPD) Review Class*

A unified multi-chapter ASPE venture

*\$100 for ASPE Members
\$200 for Non-Members
\$300 for CPD Class & New ASPE Membership*

*Optional:
\$50 for the official ASPE CPD Review Manual*

*Students have the option of attending class in Houston at the offices of HOK, or online via WebEx.
Your local chapter may also be hosting a group WebEx viewing, check with local leadership.*

Class Schedule:

Sat. March 17th, 8 am – 3 pm:	Classroom Instruction
Sun. March 18th, 8 am – 2 pm:	Classroom Instruction
Sat. March 24th, 8 am – 1:30 pm:	Mock Exam

**This class is intended as a supplemental study resource for the CPD exam. Individuals should also utilize resources listed in the CPD Bulletin of Information to study from.*

Contact Your Local Chapter Leadership to Register:

Chris Phillips, Central Texas: (210) 262-2142, zildjianedge@hotmail.com

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CERTIFIED IN PLUMBING DESIGN (CPD) EXAM REVIEW

ASPE Texas

SYLLABUS

1. **CPD Exam Review Experience**
2. **Short Quiz**
3. **General Math Review**

March 3rd & 4th

1. Introduction

- A. About review class
- B. Review Manual
- C. What to study/other study material
- D. 5 examination areas

2. Gathering Information/Administration

- A. Site utility plan information
- B. Information from water department
- C. Obtaining information about project
- D. Estimating

3. Design

- A. Flow in drainage systems
 - (1) Manning formula
 - (2) Example problems
 - (3) Velocity requirements
- B. Interior drainage systems
 - (1) Definitions
 - (2) Terminal length and velocity
 - (3) Example problems
 - (4) Waste connections
 - (5) Waste pipe installation
 - (6) Cleanout requirements
 - (7) Waste and stack sizing
 - (8) Testing
- C. Vent systems
 - (1) Air characteristics
 - (2) Static head and PSI conversion
 - (3) Vent design
 - (4) Alternate venting methods
- D. Sumps and ejectors
 - (1) Design
 - (2) Example problems
- E. Storm water systems
 - (1) Design
 - (2) Example problems

- F. Site drainage
 - (1) Design
 - (2) Example problems
- G. Domestic water systems
 - (1) Types of water flow
 - (2) Reynolds number
 - (3) Velocity requirements
 - (4) Types of energy
 - (5) Friction head loss
 - (6) Hydraulic shock
 - (7) Methods of peak demand
 - (8) Pressure requirements
 - (9) Valve types
- H. Domestic hot water systems
 - (1) Design objectives
 - (2) Types of water heaters
 - (3) Example problems
 - (4) Hot water mixing
- I. Backflow Prevention
 - (1) Types of backflow prevention
 - (2) Effectiveness of backflow prevention devices
- J. Pumps
 - (1) Types of pressures
 - (2) Example problems
- K. Expansion and contraction
 - (1) Types of expansion
 - (2) Formula and example problem
- L. Fire protection
 - (1) Examples of authority having jurisdiction (AHJ)
 - (2) Types of sprinkler systems
 - (3) Types of flow alarms
- M. Fuel gas systems
 - (1) Types of liquefied petroleum
 - (2) Pressure types
 - (3) Design
- N. Specifications
 - (1) 3 parts of specification
- O. Construction services
 - (1) Individual relationships
- P. Administration
 - (1) Budgeting

March 24th

1. **Mock Exam**
2. **Mock Exam Review**



This class will be utilizing the Ti-30X IIS calculator (\$12.97 at Walmart). If using a different device, it is your responsibility to understand its functionality to properly execute formulas and calculations.

The 2015 version of the CPD Review Manual has been completely reviewed and updated with design details on the following plumbing systems to help you prepare for the CPD Exam:

Interior and site drainage
Stormwater drainage
Domestic hot and cold water
Vents
Pumps
Backflow prevention
Fire protection
Fuel gas
Thermal expansion and contraction
Medical gases



Also, a practice exam features explanations of why answers are correct or incorrect and includes tips on taking the CPD Exam.

The CPD Review Manual Sells Online for \$85 (for members). Contact Your Local Chapter Leadership to Obtain Your Copy for Only \$50.

Donald Taylor grew up in Purvis, Mississippi. He earned his bachelor's of Science degree in Architectural Engineering Technology at the University of Southern Mississippi and began his career as a plumbing designer in Houston straight out of college. Initially designing different types of local commercial projects, two years later he advanced to the level of senior plumbing designer at one of the largest architectural/engineering firms in the world, where he gained experience working on international projects as well as learning to meet unusual criteria by a variety of clientele.



Donald Taylor, CPD, GPD
Senior Plumbing Designer

After nine years in Houston, Don decided to move to Norman, OK for a slower pace of life and to start a family. While there, he was a member of the Dallas-Ft. Worth chapter and together they helped start the ASPE Oklahoma City satellite chapter, where Donald served as interim president for two years. Five years later, Don is back in Houston with his wife Jean and daughter Savannah.



Donald became a full member of ASPE in 2004 and has served as a business meeting delegate at the 2004, 2010, 2012, and 2014 National Conventions. He is currently serving on the Houston Chapter Board of Directors, and has served as both Chairman and Co-chairman of the ASPE Houston Product Show. After earning his Certified in Plumbing Design designation, in a joint effort with a co-worker he began helping others prepare for the CPD exam. Since 2006, Donald has regularly been proctoring CPD review classes for the Houston and DFW ASPE Chapters.