

Professional Certification Review Manual

APPRENTICE DRAFTER

ARCHITECTURAL

Competency 15

Foundation Plans-Identification and Related Terminology

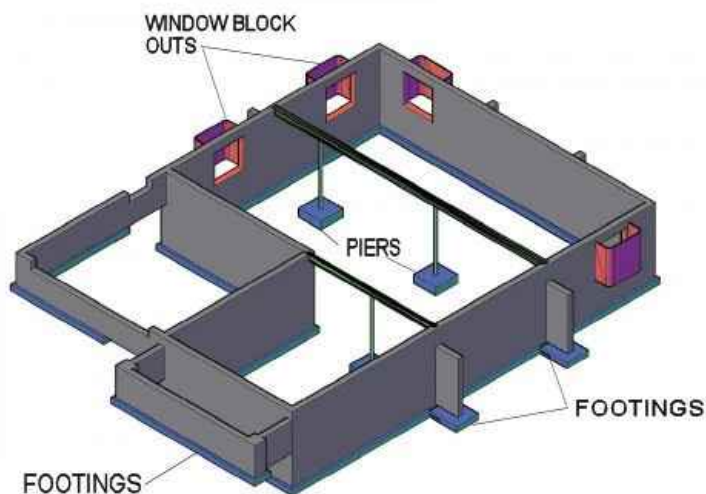
ITEMS TO REVIEW for COMPETENCY 15:

- Purpose of a foundation system
- Foundation parts terminology
- Typical type of foundation used
- Slab construction
- Concrete components
- Foundation type identification
- What materials can be used for a foundation
- Moisture content in basements
- Foundation design requirements
- Steps in creating slab-on-grade
- Footing requirements

TERMS TO BE DEFINED OR IDENTIFIED for COMPETENCY 15:

- Frost line
- Sill plate
- Pilings
- Concrete pier
- Continuous foundation
- Monolithic slab
- Control joints
- Expansion joints
- Cement
- Reinforcement
- Slab
- Masonry
- Crawl space & ventilation
- Footing
- Retaining wall
- Vapor barrier
- Concrete
- Slab on grade

Below is an example of a spread footing foundation, one of the most common types of foundations.



REVIEW QUESTIONS

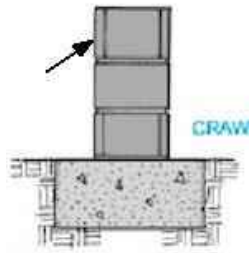
1. A footing is used to spread building loads
 - a. T
 - b. F
2. Foundation systems should be designed to:
 - a. Not move with the ground
 - b. Move with the ground
 - c. Not move at all
 - d. None of the above
3. Concrete piers are used to:
 - a. Tie up a boat
 - b. Support the slab
 - c. Support interior loads
 - d. Support the walls
4. All structures built require a foundation
 - a. T
 - b. F
5. Retaining walls hold back:
 - a. People
 - b. Wind
 - c. Water
 - d. Soil and rocks
6. Define crawl space.
 - a. Area below the floor joist
 - b. The area above the ceiling joist
 - c. The area around the fire place
 - d. The area underneath the stairs

7. Reinforcing is required for all footings.

- a. T
- b. F

8. Identify the material indicated.

- a. Concrete
- b. Brick
- c. Stone
- d. Masonry



9. What material converts concrete to reinforced concrete?

- a. Gravel
- b. Rebar
- c. Wire mesh
- d. B & C

10. Potash is the most important ingredient in concrete mix.

- a. T
- b. F

11. Pouring the footing and the slab all at once would be considered:

- a. A spread or continuous foundation
- b. A monolithic slab
- c. Slab on grade
- d. None of the above