

Exam Title: 8720320 Building Construction Technology 2

Courses Assessed by this Exam: Building Construction Tech 2

Key Vocabulary: load-bearing pressure, sedimentary, foliated backfill, allowable foundation, slope, graded, adjacent, stud, sill, top plate, framing, floor joists, rafter, integrity, mortar, cure time, masonry, stucco, dehydrating, reworking, slaking, troweling, pony wall, ridge, lime, silicates, aggregate, retarder, superplasticizer, calcium slab, fiber mesh, admixture, footers, exterior, weather phenomena, bonding agent, primer, wire lath, trowel notch, hammer, piers, screwdriver, wrench, Boyle's law, veneering, respirator, hardhat, safety goggles, exposure, gout, rickets, ringworm, warts, PSI, tensile, PSF, slumps: collapse, negative, shear, true. Framing: balloon, integrity, platform, step.

Student Tasks:

- Understand parameters related to load-bearing pressure
- Calculate minimum slope
- Understand several framing methods and which circumstances require which method
- Identify types of flooring
- Understand the concrete curing process and the materials associated with process
- Understand the masonry process and the materials associated with the process.
- Understand mixture ratios for concrete
- Calculate square footage, cubic yards, PSI and PSF
- Know weight limits associated with concrete
- Examine a floor plan diagram
- Differentiate between the different types of slumps
- Understand the effects that weather and temperature can have on several building and construction processes
- Understand tools associated with building and construction
- Understand safety rules and procedures associated with building and construction