PCI GFRC Exam Study Guide

PCI MNL-130 is available for reference during quality control processes in the plant; however, the PCI GFRC exam is a closed book test. This study guide is provided to help examinees to focus on some critical items that need to be committed to memory.

DIVISION 1
A. Quality assurance program
B. Samples

DIVISION 2
A. Molds
   1. Materials
B. Inserts and embeds
C. Panel marking
D. Stripping
E. Storage
F. Cleaning
G. Loading support
H. Face finishing techniques
I. Anchoring natural stone
J. Acceptability of appearance

DIVISION 3
A. Production variables that can cause color variations
B. Cement requirements
C. Sand requirements (sieve)
D. Aggregate sizes
E. Usage of wet or dry sand
F. Water quality requirements

DIVISION 4
A. Mix proportioning of face mixes and backup
B. Batching tolerances
C. Fiber content
D. Spraying
E. Compaction
F. Gfrc shrinkage
G. Flexural strength components
H. Moisture induced shrinkage
I. Thermal expansion
J. Mixing temperatures
K. Weight of bagged cement
L. False setting
M. Minimum grfc backing thickness
N. Frame setting and bonding issues
O. Bonding pad dimensions
P. Curing

DIVISION 5
A. Raw materials requiring mill certificates
B. Storage of admixtures and curing polymers
C. What material changes requires re-evaluation of the face mix
D. Testing and frequency of production testing
   1. Wet
   2. After curing
E. Sieve Analysis
F. Bag and Bucket Test
G. Wash-out Test
H. Record keeping

DIVISION 6
A. Who determines dimensional tolerances

MISCELLANEOUS AND ADDITIONAL INFORMATION
A. Reading welds
   1. Symbols
   2. Size
   3. Length
   4. Notes
   5. Field and shop
B. Reading shop tickets
   1. Dimensions
   2. Frame sizes and offsets
   3. Anchor types and
   4. Square footage
C. PCI Policy 28, Section 6, Glass Fiber Reinforced Concrete (GFRC) Technician/Inspector Program