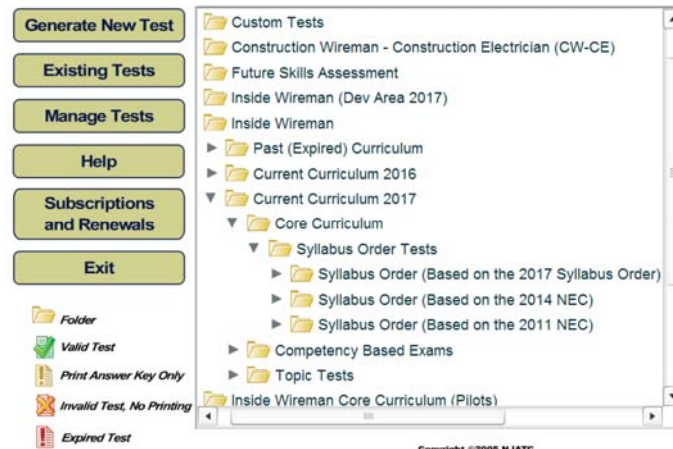
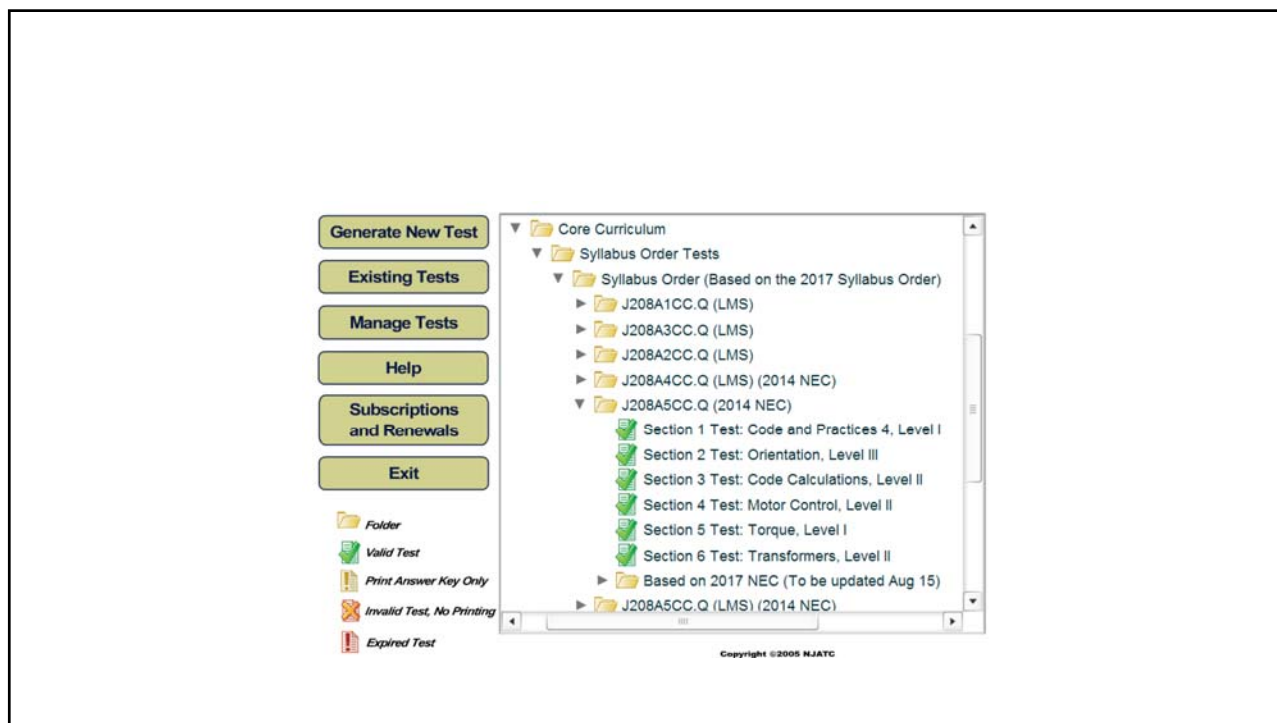
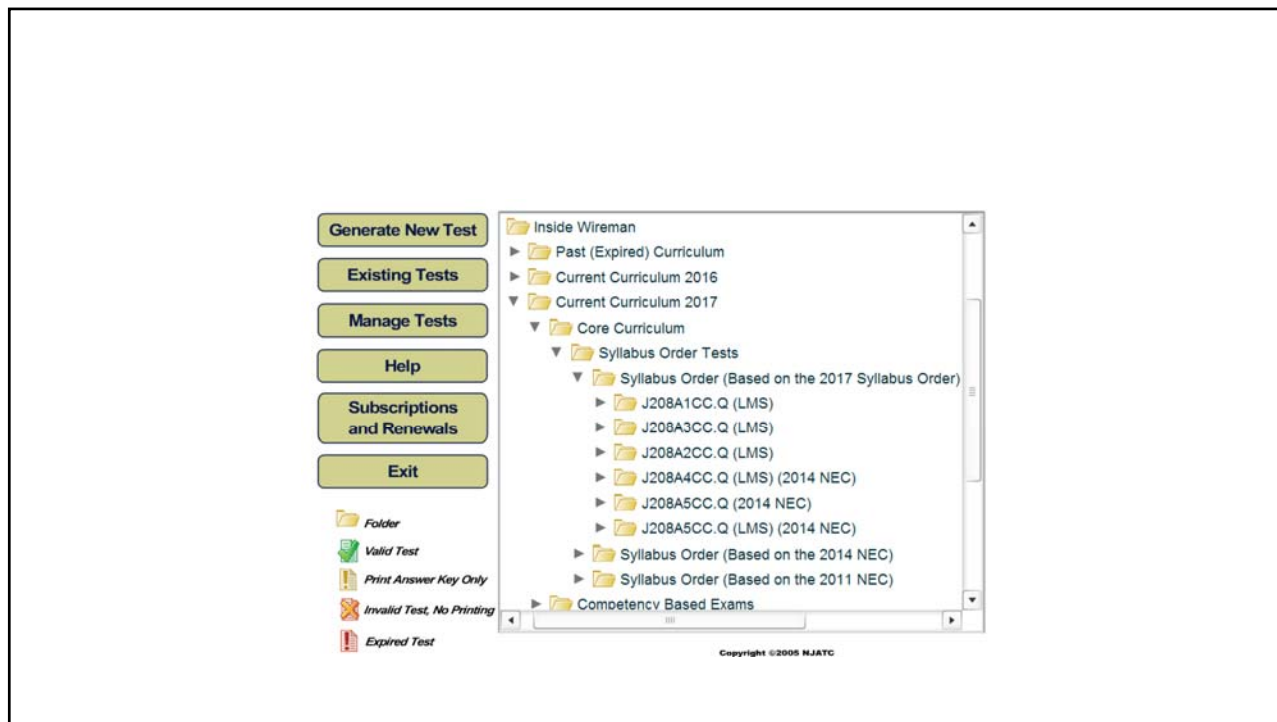


Test Generator


Jim Simpson, Director of Installer-Technician and Residential Curriculum





The screenshot displays a software interface with a sidebar on the left containing several buttons: "Generate New Test", "Existing Tests", "Manage Tests", "Help", "Subscriptions and Renewals", and "Exit". Below these buttons is a legend with icons for "Folder", "Valid Test", "Print Answer Key Only", "Invalid Test, No Printing", and "Expired Test". The main window shows a tree view of test folders. The root folder is "Syllabus Order (Based on the 2017 Syllabus Order)". It contains sub-folders for "J208A1CC.Q (LMS)", "J208A3CC.Q (LMS)", "J208A2CC.Q (LMS)", "J208A4CC.Q (LMS) (2014 NEC)", and "J208A5CC.Q (2014 NEC)". The "J208A5CC.Q (2014 NEC)" folder is expanded, showing a list of tests: "Section 1 Test: Code and Practices 4, Level I", "Section 2 Test: Orientation, Level III", "Section 3 Test: Code Calculations, Level II", "Section 4 Test: Motor Control, Level II", "Section 5 Test: Torque, Level I", and "Section 6 Test: Transformers, Level II". Below this is another folder "Based on 2017 NEC (To be updated Aug 15)" containing "Section 1 Test: Code and Practices 4, Level I" and "Section 3 Test: Code Calculations, Level II". At the bottom of the tree view, "J208A5CC.Q (LMS) (2014 NEC)" is also visible. A copyright notice "Copyright ©2005 NJATC" is located at the bottom center of the window.

The screenshot displays the same software interface as above. The sidebar buttons and legend are identical. The main window shows a different tree view. The root folder is "Syllabus Order Tests". It contains sub-folders for "Syllabus Order (Based on the 2017 Syllabus Order)", "Syllabus Order (Based on the 2014 NEC)", and "J208A1CC.Q (LMS)". The "J208A1CC.Q (LMS)" folder is expanded, showing a list of tests: "Section 1 Test: Orientation, Level I", "Section 2 Test: Job Information - 1, Level I", "Section 3 Test: Conduit Fabrication, Level I", "Section 4 Test: Job Information - 2, Level I", "Section 5 Test: Code, Standards, and Practices, Level I, B", "Section 6 Test: DC Theory, Level I - 2nd Ed.", "Section 7 Test: DC Theory, Level II - 2nd Ed.", "Section 8 Test: DC Theory, Level III - 2nd Ed.", "Section 9 Test: DC Theory, Level IV - 2nd Ed.", and "Section 10 Test: Conduit Fabrication, Level II". Below this, "J208A3CC.Q (LMS)" and "J208A2CC.Q (LMS)" are also visible. A copyright notice "Copyright ©2005 NJATC" is located at the bottom center of the window.



NATIONAL ELECTRICAL JATC COURSE
 Inside Wireman Core Curriculum, Year 1
Section 6 Test, DC Theory, Level I - 2nd Ed.

Name: _____ Date: _____ Instructor: _____

Each correct answer is worth 4 points.
Show all work.

Directions: For the following questions, place a check (✓) next to the word or phrase which **BEST** answers the question or completes the statement.

J202.M.K10010122081:
 1. What prevents electrons from being pulled into the nucleus of an atom?
 a. centrifugal force
 b. electrical energy
 c. gravitational force
 d. magnetic energy

J202.M.K10010222085:
 2. Particles located in the outer orbit of an atom are called _____.
 a. neutrons
 b. photons
 c. protons
 d. valence electrons

J202.M.K10010322087:
 3. Electrons are _____ particles.
 a. magnetic
 b. negatively charged
 c. neutral
 d. positively charged

J202.M.K10010422092:
 4. An electrical insulator is generally made from a material that has _____ electrons in its outer shell.

J202.M.K10020222104:
 5. Which of the following methods or actions **CANNOT** be used to produce electrical current?
 a. friction
 b. chemical action
 c. pressure
 d. vacuum

J202.M.K10020322106:
 6. A collection of cells connected in _____ permit a battery to produce more voltage.
 a. groups
 b. parallel
 c. rows
 d. series

J202.M.K10020422108:
 7. A light emitting diode (LED) operates on the principle of _____.
 a. electroluminescence
 b. fluorescence
 c. phosphorescence
 d. p-n junction luminescence

J202.M.K10030122117:
 8. A closed switch _____ a circuit.
 a. completes
 b. interrupts
 c. opens
 d. stops

