

SECURITY BASED SOLUTIONS FOR THE TEST PUBLISHING INDUSTRY

Test security is an important element of any exam program, whether the exam administration method is paper-and-pencil (PPT) or computer-based (CBT). However the relative risks of test security violations differ by type of test. Elanders has developed a security enhanced PPT application, which integrates automated spiraling, custom bar-coding, and encapsulated features for securing the printed exams.

BAR CODING

Unique examination information can be incorporated anywhere within the test booklet in the form of barcodes and can include distinguishers such as:

- Product number or product code
- Purchase order number
- Serial, sequence, or spiral number

**Additional items that can be incorporated include, but are not limited to, school or session code, proctor location, examinee distinguishers.*

Information included in barcodes can be applied to all pages of the examination including cover, body pages, and the answer sheet. The information can be used in its entirety throughout the book, or select information can be placed on specified pages or sections. This ensures all components can easily be matched up at a later date should parts of the examination become separated due to scoring and storage.

PRE-POPULATED INFORMATION

Information Fields can be pre-populated directly on the test booklet and answer sheet prior to the test date.

Benefits of pre-populated fields include:

- One specific test for each test taker
- Increased security during test distribution, collection, and scoring
- Decreased labor requirements for proctor
- Assurance that all tests will have an examinee name

TEST BOOKLET AS A WHOLE

Many features can be included on your test booklets as a whole. Incorporation of multiple features enhances security:

- Encapsulation of all test booklets ensures no one has tampered with them
- Unique page coding ensures that all components can easily be reconciled at a later date for tracking of tampered booklets or scoring questions
- In-line spiraling of tests guarantees no two tests in a row are alike reducing the issues associated with cheating as well as decreased labor requirements from the proctor
- Answer sheets are attached to the test booklet in-line ensuring that:
 - All tests have an answer sheet
 - All answers sheets are the correct form for the test being taken
 - Answer sheets can be perforated and removed for scoring, and through the use of bar-coding, options can easily be reconciled with the specific exam booklet it was pulled from

BUILDING THE EXAMINATION BOOKLETS

- If spiraling or sequencing is desired, predefined examination files are alternated during the application of the variable data
- One file is created and booklets are produced in proper sequence right off the print engine, no human interaction is required
- All booklets are completed in-line including the answer sheet which will be imprinted with any or all of the variable data
- Quality and sequence checks are applied at the print engine stage, at shrinkwrap, and again at packaging

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