

Exam Title: 9007210 Foundations of Programming

Courses Assessed by this Exam: Foundations of Programming

Key Vocabulary: computer programmer, ethical decisions, server, coding, downloadable, app, track, online, compiler, spreadsheet, word processor, source code editor, variable, magic number, Boolean, integer, float, string, data, python code, syntax error, median, elif statement, function, while loop, design solution, implement solution, test and evaluate, understanding the problem, algorithm, crashes, bug, iOS, system testing, alpha testing, beta testing, user acceptance testing, unit testing, syntax testing, mismatch errors, usability errors, logic errors, flow chart, game design document, pseudo-code, square root, sqrt, algebra, software, virus, Trojan horse, spam, phish, cc (as in email), Google Drive, link

Student Tasks:

- Understand the importance of continuing education for computer programmers
- Understand ethical situations a computer programmer might face, and associated ethical decisions
- Identify software associated with programming code
- Understand the concept of the variable and its purposes
- Know and identify Boolean, Integer, Float, String variables
- Decide which types of variables would be the best variable choice given specific situations
- Problem solve specific errors related to coding
- When given texts, identify the secret messages found in the text based on code concepts
- Apply Boolean logic to situations and problems
- Given specific texts, determine what would be printed and where
- Understand the program development cycle
- Be familiar with basic customer service concepts related to programming, code, and apps
- Know the stages of video game and other similar software testing
- Identify software viruses and their abilities
- Understand development tools that are associated with programming and code