Performance Phase-Apprentice Capabilities Developer Exam Task List

This page lists the Master Training Task List (MTTL) items that are associated with the Performance Phase-Apprentice Capabilities Developer Exam.

MTTL References By Exam Module

C Programming - Module #1:

Developers will demonstrate basic, string, and formatted Input/output functions in their code development. (III 1 A)

Developers will have a thorough understanding of Data types and Variables and be able to use them in their code development for C programming. (III 1 B)

Developers will demonstrate a thorough understanding of C programming Operators and Expressions and will use operators within their code development. (III 1 C)

Developers will describe Control Flow concepts and utilize coding style guide format, Stub Codes, statements and blocks, conditional statements, loops as well as nested control flow in code development. (III 1 D)

Developers will define and use functions as part of code development. (III 1 E)

Developers will apply a basic knowledge of pointers and arrays, through use/manipulation in code development. (III 1 G)

Developers will demonstrate a thorough understanding of advanced pointers and use them as part of their in the code development (III 1 H)

Developers will demonstrate the use of Structures/Unions/Enumerators while coding in C (III 1 I)

Developers will have a strong understanding of Memory Management concepts, and apply these concepts in the coding techniques. (III 1 J)

Developers will apply a thorough understanding of header files in code development. (III 1 M)

Developers will apply an understanding through coding techniques of Basic Data Structures: Linked Lists, Queues, Stack, Trees (III 1 P)

C Programming - Module #2:

Developers will have a thorough understanding of Data types and Variables and be able to use them in their code development for C programming. (III 1 B)

Developers will demonstrate a thorough understanding of C programming Operators and Expressions and will use operators within their code development. (III 1 C)

Developers will describe Control Flow concepts and utilize coding style guide format, Stub Codes, statements and blocks, conditional statements, loops as well as nested control flow in code development. (III 1 D)

Developers will define and use functions as part of code development. (III 1 E)

Developers will apply a basic knowledge of pointers and arrays, through use/manipulation in code development. (III 1 G)

Developers will demonstrate a thorough understanding of advanced pointers and use them as part of their in the code development (III 1 H)

Developers will have a strong understanding of Memory Management concepts, and apply these concepts in the coding techniques. (III 1 J)

Developers will apply a thorough understanding of header files in code development. (III 1 M)

Developers will be able to Cast between multiple data types in C. (III 1 N)

Network Module:

Developers will discuss String-based Protocol. (III 4 P)

Developers will apply knowledge of Bitwise Protocol and binary operators: AND, OR, XOR. (III 4 Q)

Developers will use the bind() function in TCP/UDP. (III 4 AA)

Developers will perform socket programming in Python. (III 4 AF)

Python - Module #1:

Developers will properly use data types and Variables as part of code development. (III 3 A)

Developers will apply knowledge of coding etiquette through the proper use of whitespace/formatting and comments. (III 3 B)

Developers will understand the use of Numeric Data types and will be able to properly implement them. (III 3 C)

Developers will understand Arithmetic Operations and be able to properly implement them (III 3 D)

Developers will create/use strings and be able to properly implement them. (III 3 E)

Developers will apply knowledge of Control Flow in coding techniques. (III 3 F)

Developers will implement sequence types in code development (str, unicode, list, tuple, bytearray, buffer, xrange). (III 3 G)

Developers will apply knowledge of Python mapping types in code development (III 3 I)

Developers will use conditional statements in code development. (III 3 K)

Developers will use functions in code development. (III 3 L)

Developers will apply knowledge of Loops in coding techniques. (III 3 O)

Python - Module #2:

Developers will properly use data types and Variables as part of code development. (III 3 A)

Developers will apply knowledge of coding etiquette through the proper use of whitespace/formatting and comments. (III 3 B)

Developers will understand the use of Numeric Data types and will be able to properly implement them. (III 3 C)

Developers will implement sequence types in code development (str, unicode, list, tuple, bytearray, buffer, xrange). (III 3 G)

Developers will use conditional statements in code development. (III 3 K)

Developers will use functions in code development. (III 3 L)

Developers will apply knowledge of Loops in coding techniques. (III 3 O)