Python Lesson Plan

Approximately 20 hours of videos and projects.

Domain 1 - Operations using Data Types and Operators [approximately 4.25 hours of videos and projects]

Lesson	Lesson Topic and Subtopics	Objectives	Workbook Projects and Files
Pre-Assessment Assessment time - 00:16:00	Operations using Data Types and Operators: Pre-Assessment		
Lesson 1 Video time - 00:02:47 Workbook time - 00:00:00	Course Opener Introduction How to Study for This Exam		

Lesson 2
Video time - 00:06:36
Workbook time - 00:25:00
	Evaluate Data Types
	Variables
	String Data Type
	Integer and Float Data Types
	Boolean Data Types
		1.1 Evaluate expressions to identify the data types Python assigns to variables
		1.1a Str, int, float, and bool data types
			Using String Variables and the Print Command – pg. 11
			     Python11.sln
			     _11a_Strings.py
			Integer and Float Data Types – pg. 12
			     Python11.sln
			     _11a_Numbers.py
			Boolean Data Types – pg. 13
			     Python11.sln
			     _11a_Boolean.py

Lesson 3
Video time - 00:06:56
Workbook time - 00:25:00
	Convert and Work With Data Types
	Type Casting
	Constructing Data Structures
	Indexing and Slicing Operations
		1.2 Perform data and data type operations
		1.2a Type casting
		1.2b Constructing data structures
		1.2c Indexing and slicing operations
			Type Casting – pg. 14
			     Python12.sln
			     _12a_Type_Casting.py
			Constructing Data Structures – pg. 15
			     Python12.sln
			     _12b_constructing_data_structures.py
			Indexing and Slicing Operations – pg. 16
			     Python12.sln
			     _12c_Indexing_and_Slicing_Operations.py

Lesson 4
Video time - 00:13:37
Workbook time - 00:50:00
	Operator Sequence and Selection
	Assignment
	Comparison
	Logical
	Arithmetic
	Identity
	Containment
	Domain 1 Exam Tips
		1.3 Determine the sequence of execution based on operator precedence
		1.3a Assignment
		1.3b Comparison
		1.3c Logical
		1.3d Arithmetic
		1.3e Identity
		1.3f Containment
		1.4 Select operators to achieve the intended results
		1.4a Assignment
		1.4b Comparison
		1.4c Logical
		1.4d Arithmetic
		1.4e Identity
		1.4f Containment
			Assignment – pg. 17
			     Python13and14.sln
			     _13a_14a_Assignments.py
			Comparison – pg. 18
			     Python13and14.sln
			     _13b_14b_Comparisons.py
			Logical – pg. 19
			     Python13and14.sln
			     _13c_14c_Logical.py
			Arithmetic – pg. 20
			     Python13and14.sln
			     _13a_14a_Assignments.py
			Identity – pg. 21
			     Python13and14.sln
			     _13a_14a_Identity.py
			Containment – pg. 22
			     Python13and14.sln
			     _13a_14a_Containment.py

Post-Assessment Assessment time - 01:08:00	Operations using Data Types and Operators: Post-Assessment		