




BASE SAS


INTRODUCTION TO SAS & SAS PROGRAMS	Pre-Lecture Videos for Self-Study	Instructor-Led Training Coverage	
	<ul style="list-style-type: none"> ■ Introduction to SAS ■ SAS Environment ■ Understanding Program Flow ■ Comments, Steps and Statements in a SAS Program 	<ul style="list-style-type: none"> ■ What is SAS? ■ Key Features ■ Submitting a SAS Program ■ SAS Program Syntax 	
DURATIONS	 30 MINUTES	Classroom Delivery 2 HOURS	Online Virtual Class Delivery 2 HOURS
ACCESSING, REPORTING AND FORMATTING DATA	Pre-Lecture Videos for Self-Study	Instructor-Led Training Coverage	
	<ul style="list-style-type: none"> ■ Importing and Exporting Data ■ Formatting Data and Variables 	<ul style="list-style-type: none"> ■ Examining SAS Datasets Accessing SAS Libraries ■ Sorting and Grouping ■ Reporting Data ■ Using SAS Formats 	
DURATIONS	 30 MINUTES	Classroom Delivery 4 HOURS	Online Virtual Class Delivery 3 HOURS
READING AND MANIPULATING DATA	Pre-Lecture Videos for Self-Study	Instructor-Led Training Coverage	
	<ul style="list-style-type: none"> ■ Creating Sas Datasets ■ Handling Raw Data Files ■ Sorting, Concatenating & Merging Datasets ■ Subsetting Merged Data ■ Combining Multiple Datasets ■ Creating Multiple Datasets ■ Understanding Formatted Raw Files ■ Handling Missing Values ■ Creating User Defined Formats ■ Data Manipulation Techniques 1 ■ Data Manipulation Techniques 2 	<ul style="list-style-type: none"> ■ Reading SAS Datasets ■ Reading Excel Data ■ Reading Raw Files ■ Creating Summary Reports ■ Combining Datasets 	
DURATIONS	 1 HOUR	Classroom Delivery 8 HOURS	Online Virtual Class Delivery 6 HOURS
SUMMARIZING DATA	Pre-Lecture Videos for Self-Study	Instructor-Led Training Coverage	
	<ul style="list-style-type: none"> ■ Implementing Summary Functions 	<ul style="list-style-type: none"> ■ Writing Observations ■ Writing to Multiple Datasets ■ Accumulating Total ■ Creating Accumulating Total for a Group of Data 	
DURATIONS	 30 MINUTES	Classroom Delivery 6 HOURS	Online Virtual Class Delivery 6 HOURS
DATA TRANSFORMATIONS	Pre-Lecture Videos for Self-Study	Instructor-Led Training Coverage	
	<ul style="list-style-type: none"> ■ Predefined Functions in SAS ■ Applying Numeric Functions ■ Assignment on Functions 	<ul style="list-style-type: none"> ■ Character and Numeric Functions ■ Converting Variable Type ■ Reading Formatted Input ■ Other SAS Functions 	
DURATIONS	 30 MINUTES	Classroom Delivery 4 HOURS	Online Virtual Class Delivery 3 HOURS

RESTRUCTURING DATASETS	Pre-Lecture Videos for Self-Study	Instructor-Led Training Coverage	
	<ul style="list-style-type: none"> ■ Understanding Loops in SAS ■ Iterative and Conditional Looping ■ Creating Arrays in SAS ■ Assignment on Loops and Arrays 	<ul style="list-style-type: none"> ■ Do Loop Processing ■ Conditional Do Loop Processing ■ SAS Array Processing ■ Using SAS Arrays 	
DURATIONS	 1 HOUR	Classroom Delivery 3 HOURS	Online Virtual Class Delivery 3 HOURS

RESUME BUILDING & INTERVIEW PREP	Pre-Lecture Videos for Self-Study	Instructor-Led Training Coverage	
	<ul style="list-style-type: none"> ■ Resume Writing 	<ul style="list-style-type: none"> ■ The Why, The What and the How of Resumes ■ Personal Branding ■ Tips and Resources ■ Interview Skills ■ Using Social Media ■ CV Discussion ■ How To Ace The 50 Most Common Interview Questions 	
DURATIONS	 1 HOUR	Classroom Delivery 2 HOURS	Online Virtual Class Delivery 2 HOURS


ADVANCED SAS


INTRODUCTION TO ADVANCED SAS FEATURES	Instructor-Led Training Coverage	
	<ul style="list-style-type: none"> ■ Purpose of the Macro Facility ■ Program Flow 	
DURATIONS	 Classroom Delivery 2 HOURS	Online Virtual Class Delivery 2 HOURS


MACRO VARIABLES	Pre-Lecture Videos for Self-Study	Instructor-Led Training Coverage	
	<ul style="list-style-type: none"> ■ Working with Macro Variables ■ Working with Macro Programs 	<ul style="list-style-type: none"> ■ Introduction to Macro Variables ■ Automatic Macro Variables ■ User Defined Macro Variables ■ Macro Variable Reference 	
DURATIONS	 1 HOUR	Classroom Delivery 2 HOURS	Online Virtual Class Delivery 2 HOURS


MACRO DEFINITION	Instructor-Led Training Coverage	
	<ul style="list-style-type: none"> ■ Defining and Calling Macros ■ Macro Parameters ■ Global and Local Symbol Table 	
DURATIONS	 Classroom Delivery 2 HOURS	Online Virtual Class Delivery 2 HOURS


DATA STEP AND SQL INTERFACES	Instructor-Led Training Coverage			
	<ul style="list-style-type: none"> ■ Creating Macro Variables in the Data Step ■ Creating Macro Variables in SQL ■ Macro Programs 			
DURATIONS		<table border="1"> <tr> <td>Classroom Delivery 2 HOURS</td> <td>Online Virtual Class Delivery 2 HOURS</td> </tr> </table>	Classroom Delivery 2 HOURS	Online Virtual Class Delivery 2 HOURS
Classroom Delivery 2 HOURS	Online Virtual Class Delivery 2 HOURS			


INTRODUCTION TO SQL	Instructor-Led Training Coverage			
	<ul style="list-style-type: none"> ■ Introduction to SQL ■ How Does RDBMS Work? 			
DURATIONS		<table border="1"> <tr> <td>Classroom Delivery 1 HOUR</td> <td>Online Virtual Class Delivery 30 MINUTES</td> </tr> </table>	Classroom Delivery 1 HOUR	Online Virtual Class Delivery 30 MINUTES
Classroom Delivery 1 HOUR	Online Virtual Class Delivery 30 MINUTES			


BASIC QUERIES	Pre-Lecture Videos for Self-Study		Instructor-Led Training Coverage			
	<ul style="list-style-type: none"> ■ Implement SQL in SAS Environment ■ Creating Tables and Updating Data using SQL ■ Altering Tables using SQL 		<ul style="list-style-type: none"> ■ SQL Procedures ■ Specifying Columns ■ Specifying Rows 			
DURATIONS		1 HOUR	<table border="1"> <tr> <td>Classroom Delivery 1 HOUR</td> <td>Online Virtual Class Delivery 30 MINUTES</td> </tr> </table>	Classroom Delivery 1 HOUR	Online Virtual Class Delivery 30 MINUTES	
Classroom Delivery 1 HOUR	Online Virtual Class Delivery 30 MINUTES					


DISPLAYING QUERY RESULTS	Instructor-Led Training Coverage			
	<ul style="list-style-type: none"> ■ Presenting Data ■ Summarizing Data 			
DURATIONS		<table border="1"> <tr> <td>Classroom Delivery 1 HOUR</td> <td>Online Virtual Class Delivery 1 HOUR</td> </tr> </table>	Classroom Delivery 1 HOUR	Online Virtual Class Delivery 1 HOUR
Classroom Delivery 1 HOUR	Online Virtual Class Delivery 1 HOUR			


SQL JOINS	Pre-Lecture Videos for Self-Study		Instructor-Led Training Coverage			
	<ul style="list-style-type: none"> ■ Writing Join Queries using SQL ■ Working with Subqueries, Indexes and Views 		<ul style="list-style-type: none"> ■ Inner Joins ■ Outer Joins ■ Complex SQL Joins 			
DURATIONS		1 HOUR	<table border="1"> <tr> <td>Classroom Delivery 1 HOUR</td> <td>Online Virtual Class Delivery 1 HOUR</td> </tr> </table>	Classroom Delivery 1 HOUR	Online Virtual Class Delivery 1 HOUR	
Classroom Delivery 1 HOUR	Online Virtual Class Delivery 1 HOUR					


SET OPERATORS	Instructor-Led Training Coverage			
	<ul style="list-style-type: none"> ■ The Union ■ Outer Union ■ Except ■ Intersect Operator 			
DURATIONS		<table border="1"> <tr> <td>Classroom Delivery 1 HOUR</td> <td>Online Virtual Class Delivery 1 HOUR</td> </tr> </table>	Classroom Delivery 1 HOUR	Online Virtual Class Delivery 1 HOUR
Classroom Delivery 1 HOUR	Online Virtual Class Delivery 1 HOUR			


CREATING TABLES AND VIEWS	Instructor-Led Training Coverage			
	<ul style="list-style-type: none"> ■ Creating Tables and Views using Proc SQL 			
DURATIONS		<table border="1"> <tr> <td>Classroom Delivery 1 HOUR</td> <td>Online Virtual Class Delivery 1 HOUR</td> </tr> </table>	Classroom Delivery 1 HOUR	Online Virtual Class Delivery 1 HOUR
Classroom Delivery 1 HOUR	Online Virtual Class Delivery 1 HOUR			


MEASURING EFFICIENCIES	Pre-Lecture Videos for Self-Study	Instructor-Led Training Coverage		
	<ul style="list-style-type: none"> ■ Reporting Computer Resource Usage using SAS System Options ■ Interpreting Resource Usage Statistics in Your Operating Environment 	<ul style="list-style-type: none"> ■ Reporting Computer Resource Usage using SAS System Options ■ Interpreting Resource Usage Statistics in Your Operating Environment ■ Benchmarking Resource Usage 		
DURATIONS	 1 HOUR	<table border="1"> <tr> <td>Classroom Delivery 1 HOUR</td> <td>Online Virtual Class Delivery 1 HOUR</td> </tr> </table>	Classroom Delivery 1 HOUR	Online Virtual Class Delivery 1 HOUR
Classroom Delivery 1 HOUR	Online Virtual Class Delivery 1 HOUR			

CONTROLLING I/O PROCESSING AND MEMORY	Pre-Lecture Videos for Self-Study	Instructor-Led Training Coverage		
	<ul style="list-style-type: none"> ■ SAS Data Step Processing ■ Controlling I/O 	<ul style="list-style-type: none"> ■ SAS Data Step Processing ■ Controlling I/O ■ Reducing Length of Numeric Variables ■ Compressing SAS Datasets 		
DURATIONS	 1 HOUR	<table border="1"> <tr> <td>Classroom Delivery 2 HOURS</td> <td>Online Virtual Class Delivery 2 HOURS</td> </tr> </table>	Classroom Delivery 2 HOURS	Online Virtual Class Delivery 2 HOURS
Classroom Delivery 2 HOURS	Online Virtual Class Delivery 2 HOURS			


ACCESSING OBSERVATIONS	Instructor-Led Training Coverage			
	<ul style="list-style-type: none"> ■ Creating a Sample Dataset ■ Creating an Index ■ Using an Index 			
DURATIONS		<table border="1"> <tr> <td>Classroom Delivery 2 HOURS</td> <td>Online Virtual Class Delivery 2 HOURS</td> </tr> </table>	Classroom Delivery 2 HOURS	Online Virtual Class Delivery 2 HOURS
Classroom Delivery 2 HOURS	Online Virtual Class Delivery 2 HOURS			

USING DATA STEP ARRAYS	Pre-Lecture Videos for Self-Study	Instructor-Led Training Coverage		
	<ul style="list-style-type: none"> ■ Introduction to Lookup Techniques ■ Using One and Multi Dimensional Arrays 	<ul style="list-style-type: none"> ■ Introduction to Lookup Techniques ■ Using One and Multi Dimensional Arrays ■ Loading a Multidimensional Array using Dataset 		
DURATIONS	 2 HOURS	<table border="1"> <tr> <td>Classroom Delivery 2 HOURS</td> <td>Online Virtual Class Delivery 1 HOUR</td> </tr> </table>	Classroom Delivery 2 HOURS	Online Virtual Class Delivery 1 HOUR
Classroom Delivery 2 HOURS	Online Virtual Class Delivery 1 HOUR			

USING DATA STEP HASH AND HITER OBJECTS	Pre-Lecture Videos for Self-Study	Instructor-Led Training Coverage		
	<ul style="list-style-type: none"> ■ Using Hash Object Methods 	<ul style="list-style-type: none"> ■ Using Hash Object Methods ■ Loading a Hash Object using a SAS Dataset ■ Using Data Step Hiter Object 		
DURATIONS	 1 HOUR	<table border="1"> <tr> <td>Classroom Delivery 2 HOURS</td> <td>Online Virtual Class Delivery 1 HOUR</td> </tr> </table>	Classroom Delivery 2 HOURS	Online Virtual Class Delivery 1 HOUR
Classroom Delivery 2 HOURS	Online Virtual Class Delivery 1 HOUR			

COMBINING DATA HORIZONTALLY	Pre-Lecture Videos for Self-Study	Instructor-Led Training Coverage	
	<ul style="list-style-type: none"> ■ Using an Index ■ Combining Summary and Detailed Data ■ Combining Data Conditionally 	<ul style="list-style-type: none"> ■ Data Step Merges and SQL Procedure Joins ■ Using an Index ■ Combining Summary and Detailed Data ■ Combining Data Conditionally 	
DURATIONS	 1 HOUR	Classroom Delivery 2 HOURS	Online Virtual Class Delivery 1.5 HOURS

EXPERT PROGRAMMER TECHNIQUES	Instructor-Led Training Coverage	
	<ul style="list-style-type: none"> ■ The Expert Format Procedure 	
DURATIONS		Classroom Delivery 2 HOURS Online Virtual Class Delivery 2 HOURS

MOCK INTERVIEWS - HR AND DOMAIN	Pre-Lecture Videos for Self-Study	Instructor-Led Training Coverage	
	<ul style="list-style-type: none"> ■ Interview Preparation 	<ul style="list-style-type: none"> ■ Panel Mock Interviews with Industry Veterans to Clear the HR and Technical Round of Interviews to Give You Confidence to Face Real World Scenarios 	
DURATIONS	 1 HOUR	Classroom Delivery 4 HOURS	Online Virtual Class Delivery 2 HOURS