**Module 01 - SAS Environment Setup and Configuration**

By the end of this module you should be able to:

* Establish a SAS environment (IDE) in your computer.
* Determine how to obtain data and run a SAS program.
* Distinguish between different techniques used to enter data into SAS.

**Assignments:**

Module 01 - SAS Environment Setup and Configuration

Reading - SAS Essentials: Mastering SAS for Data Analytics, Chapters 1 and 2

Activity Time: 4 hours

SAS Environment Setup

Activity Time: 1 hour

Course Project Introduction

Activity Time: 30 minutes

Module 01 Course Project - Predicting Store Sales

Activity Time: 3 hours

Additional Time for Study, Research, and Reflection: 1 hour

Module 01 Assignment - Student Data

Activity Time: 2 hours

Additional Time for Study, Research, and Reflection: 1 hour

Module 01 Discussion - Predictive Analytics

Activity Time: 3 hours

Additional Time for Study, Research, and Reflection: 1 hour

Module 01 Live Classroom

Activity Time: 1 hour

Total Estimated Time: 18 hours

### **SAS Environment Setup**

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| --- | --- |
| important | You will use **SAS University Edition** with **Oracle Virtual Box** to build the SAS, which is Mac/Linux/Windows compatible.  This course will **not** use the online version of SAS University Edition/AWS. |

You can download Oracle Virtual Box [here](https://www.virtualbox.org/wiki/Downloads).

You can download SAS University Edition [here](https://www.sas.com/en_us/software/university-edition.html).

For all files for this course, please download the zip file in the Course Materials folder.

To complete the work in this course, you will need to set up a SAS Environment. It will allow you to do the following things:

* Write SAS programs.
* Debug SAS programs.
* Access raw data files.
* Product analytics results.
* Build custom reports.

Please review the following document for step-by-step instructions on how to set up a SAS Environment.

[SAS Setup Instructions](https://content.learntoday.info/learn/QMB3200fw_summer_17/media/mod01sassetup.pdf)

**Project Overview**

You are working as an Analytics Developer for Apex Corp, which is a retail firm similar to Walmart. In this project, you will need to predict store sales based on the historical data. It will help your company order the inventory for next year. Your script output will be presented as a custom report to each store manager. It will help the retail firm to increase their profit as well because your script will help them to stock only those items that are in demand.

You need to use the SAS University Edition tool and generate SAS scripts. Your project must include following things:

* SAS Scripts
* Sales projection prediction
* Apply scripting standard
* Test SAS script

All work must be original. Include comments throughout your code.

In addition to the above requirements, you will be expected to submit SAS scripts that:

* Run and operate without error.
* Are clearly written and readable with clear and sufficient comments.

For all necessary files for this project, please download the zip file in the Course Materials folder.

**Due Date**

**Your final project is due in Module 06.** There will be individual assignments along the way. The module they are due is noted in the time line below.

**Time Line**

|  |  |
| --- | --- |
| **Module** | **Assignment** |
| **01** | **Predicting Store Sales** |
| **02** | **Reading Datasets** |
| **03** | **Weekly Sales** |
| **04** | **Outputs** |
| **05** | **Scripting Standards** |
| **06** | **Final Documentation** |

**Evaluation**

Each assignment leading up to the final assignment is evaluated and graded independently. Your instructor will provide specific grading criteria for each step of the project prior to its due date.

**For Further Questions**

If you have further questions throughout this project, please ask your Instructor. Post ideas and questions for your classmates in the **General Course Questions** forum in the **Getting Started** folder of this cour