

## ***SAS Programming 1: Essentials***

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### **Essentials**

- The SAS programming process.
- Using SAS programming tools.
- Understanding SAS syntax.

### **Accessing Data**

- Understanding SAS data.
- Accessing data through libraries.
- Importing data into SAS.

### **Exploring and Validating Data**

- Exploring data.
- Filtering rows.
- Formatting columns.
- Sorting data and removing duplicates.

### **Preparing Data**

- Reading and filtering data.
- Computing new columns.
- Conditional processing.

### **Analyzing and Reporting on Data**

- Enhancing reports with titles, footnotes, and labels.
- Creating frequency reports.
- Creating summary statistics reports.

### **Exporting Results**

- Exporting data.
- Exporting reports.

### **Using SQL in SAS**

- Using Structured Query Language in SAS.
- Joining tables using SQL in SAS.