NORTH CAROLINA CAREER AND TECHNICAL EDUCATION STANDARDS

Computer Science and Information Technology Education

Grade: Grade 9 - 12
Course: SAS Programming I

NCCTE.BP20 - SAS Programming I

NCCTE.BP20.01.00 - Apply SAS Base programming concepts.

NCCTE.BP20.01.01 - Apply basic Base procedures to access libraries and enhance readability.

NCCTE.BP20.01.02 - Apply editing and debugging techniques to programming procedures.

NCCTE.BP20.01.03 - Apply DATA STEP programming to create and debug data sets.

NCCTE.BP20.01.04 - Apply an understanding of the fundamentals of SAS Syntax and rules of SAS programming to successfully run a program.

NCCTE.BP20.02.00 - Apply techniques to create basic and advanced reports.

NCCTE.BP20.02.01 - Apply PROC PRINT with options to create basic reports.

NCCTE.BP20.02.02 - Apply PROC FORMAT, PROC REPORT, PROC MEANS, PROC SORT AND PROC FREQ to generate advanced reports.

NCCTE.BP20.02.03 - Utilize Output Delivery System.

NCCTE.BP20.03.00 - Apply advanced programming techniques to manipulate data sets.

NCCTE.BP20.03.01 - Apply decision structure methods to conditionally assign values when creating and managing variables.

NCCTE.BP20.03.02 - Apply modifying options to manipulate output.

NCCTE.BP20.03.03 - Apply advanced programming methods to combine and manipulate data sets.

NCCTE.BP20.04.00 - Apply advanced programming techniques to manipulate data.

NCCTE.BP20.04.01 - Apply functions to manipulate and convert data.

NCCTE.BP20.04.02 - Apply iterative processing and SAS arrays.

NCCTE.BP20.05.00 - Apply advanced techniques to read data into SAS and manipulate records.

NCCTE.BP20.05.01 - Apply SAS programming methods to read and handle standard and non-standard numeric data as well as standard and non-standard fixed-field data.

NCCTE.BP20.05.02 - Apply SAS formats and informats to handle SAS date and time values.

NCCTE.BP20.05.03 - Apply advanced SAS programming methods to read multiple records sequentially and non-sequentially to create a single record as well as to create multiple observations from a single record.

NCCTE.BP20.05.04 - Apply advanced SAS programming procedures to read hierarchical files.