

SAS® Programming 2: Data Manipulation Techniques

Course code: PG2V2

This course is for those who need to learn data manipulation techniques using the SAS DATA step and procedures to access, transform, and summarize data. The course builds on the concepts that are presented in the SAS(R) Programming I: Essentials course and is not recommended for beginning SAS software users.

Affiliate	Duration	Course price	ITB
Bratislava	2	1 000 €	0

The prices are without VAT.

Course terms

Date	Duration	Course price	Type	Course language	Location
------	----------	--------------	------	-----------------	----------

The prices are without VAT.

Who is the course for

Business analysts and SAS programmers

What we teach you

- Understand and control DATA step processing
- Create an accumulating column and process data in groups
- Manipulate data with functions
- Convert column type
- Create custom formats
- Concatenate and merge tables
- Process repetitive code
- Restructure tables

Required skills

Before attending this course, you should have knowledge equivalent to having completed the SAS Programming 1:

Essentials course. Specifically, you should be able to do the following:

- Write DATA step code to subset rows and columns, compute new columns, and process data conditionally
- Sort tables using the SORT procedure
- Apply SAS formats

Course outline

Controlling DATA Step Processing

- Setting up for this course
- Understanding DATA step processing
- Directing DATA step output

Summarizing Data

- Creating an accumulating column
- Processing data in groups

Manipulating Data with Functions

- Understanding SAS functions and CALL routines
- Using numeric and date functions
- Using character functions
- Using special functions to convert column type

GOPAS Praha

Na Strži 2097/63
140 00 Praha 4 - Krč
Tel.: +420 226 201 390
info@gopas.cz

GOPAS Brno

Nové sady 996/25
602 00 Brno
Tel.: +420 530 513 590
info@gopas.cz

GOPAS Bratislava

Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 902 903 132
info@gopas.sk



Copyright © 2026 GOPAS, a.s.,
All rights reserved

SAS® Programming 2: Data Manipulation Techniques

Creating Custom Formats

- Creating and using custom formats
- Creating custom formats from tables

Combining Tables

- Concatenating tables
- Merging tables
- Identifying matching and nonmatching rows

Processing Repetitive Code

- Using iterative DO loops
- Using conditional DO loops

Restructuring Tables

- Restructuring data with the DATA step
- Restructuring data with the TRANSPOSE procedure

GOPAS Praha

Na Strži 2097/63
140 00 Praha 4 - Krč
Tel.: +420 226 201 390
info@gopas.cz

GOPAS Brno

Nové sady 996/25
602 00 Brno
Tel.: +420 530 513 590
info@gopas.cz

GOPAS Bratislava

Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 902 903 132
info@gopas.sk



Copyright © 2026 GOPAS, a.s.,
All rights reserved