

SAS® Education

Providing knowledge through global training and certification

Featuring:

Training by Job Role
Special Offers & Discounts



INDIA CONTACT INFO

- ▶▶ www.sas.com/india/training
- ▶▶ 91-22-6749 2222
- ▶▶ training.india@sas.com



THE
POWER
TO KNOW.



“At SAS, we’re committed to providing our users with innovative end-to-end solutions that help them solve any business problem. This means combining our revolutionary software with high quality services and support. For more than three decades SAS Education has provided our SAS users state-of-the-art training that helps them increase productivity, improve their performance, and get the most out of their software investment.

In the coming year, we hope you’ll experience the benefits of SAS training for yourself. And, as always, thank you for using SAS.”

Jim Goodnight
CEO of SAS

SAS® Education Takes You Where You Want to Go

When you choose SAS Education, you make the best investment of your time and money. As the world leader in business intelligence and analytical software, SAS improves performance and provides insight to 44,000 business, government and university sites in more than 100 countries. Wherever in the world your staff are, you can be assured they are receiving world-class education and training tailored to meet their needs.

With more than 30 years of experience, SAS Education is the recognized leader in delivering the most comprehensive, state-of-the-art SAS training in the industry. We get to know you and your organization. You can rest assured that if questions arise, even after training is completed, we’ll be ready and able to answer.

Consider these advantages:

Deploying SAS® Quickly

With courses at all skill levels, we meet you at your level of knowledge. After your first course, you will be productive with SAS software. Deploying SAS software has never been faster or easier.

Customizable Content

Our experts will work closely with you to tailor a training path based on your individual needs. Our assessments will determine how you can get the help you need to excel in your job.

Flexibility on All Levels

Our customizable courses can be delivered how and where you need them. Over the Web or in person, at your premises or in one of our high-tech training centers, we can tailor our training to meet your needs.

Firsthand SAS® Knowledge

Nobody knows SAS software and its advantages better than SAS personnel. And, nobody has more information on new and pending developments.

World-Class Instructors

SAS instructors are recognized for their outstanding teaching skills and as thought leaders in their areas of instruction. Every SAS instructor has earned a SAS Certified Professional credential. In addition, they undergo rigorous, internal certifications on a chapter-by-chapter basis before teaching your course.

Long-Term Customer Relationships

We are proud of the long-term relationships we have built with our customers. Your continued and future success is our highest priority.

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Our mission at SAS is to deliver superior software and services that empowers people with the power to make the right decisions to improve profitability.

In today's business scenario, global economies have been on a ride that has both challenged and reaffirmed all notions about "business as usual". Sure, the old rules of business still apply. Money counts. Profitability matters. Customers are number one. Shareholders rule. Competitors are hungry. Yet the game has drastically changed. Organizations today, have to continually find new ways to survive and grow – to respond to constantly changing challenges with ingenuity and agility. Companies once shielded by geography have awakened to find that competitors on the other side of the globe can leap frog them.

In such a business climate that punishes the inefficient and slow-moving, enterprises are under extreme pressure to be faster & savvier than ever to be more innovative and adaptable. Achieve more growth with fewer resources. Respond more quickly to changing markets. Deliver more competitive products and services.

To succeed in today's environment, organizations need agile strategies, clear-sighted decision making and the ability to focus scarce resources on the activities most likely to result in success. Today organizations are taking a step further from their existing ERP systems, transactional systems and other operational systems; to anticipate events and trends, predict customer life cycles, manage churn, accurately forecast demand etc. Not surprisingly Indian organizations are embarking on plans of evaluating Business Intelligence & Analytics solutions to increase their competitive advantage. As per some recent research BI market in India is poised to grow at a rate of over 25%.

At SAS, our mission is to add value for our customers and be central to their success. Our proven software and services help you do more with data than you ever thought possible. Across the enterprise, across industries and across the globe, SAS gives our customers the power to make the right decisions and improve performance...

Sudipta K. Sen
CEO & Managing Director,
SAS Institute (India) Pvt. Ltd.

What We Offer

Public courses are taught at SAS training facilities around the globe. Our instructors deliver critical SAS knowledge and helpful tips using a combination of expertly designed lectures and software demonstrations, question-and-answer sessions and hands-on computer workshops for an interactive learning experience that is second to none.

On-site courses have the same quality content and instruction as our public courses, but are taught at your workplace. You have the benefit of asking questions and generating discussions unique to your organization in a convenient and private setting. Choose any course from our comprehensive curricula or combine course segments to create a customized training experience that optimally benefits your team.

SAS Certification recognizes excellence using SAS software. With growing, worldwide demand for professionals with a high level of SAS software knowledge, certification can help you distinguish yourself as a leading SAS professional.

For the most current information on what we offer, visit us on the Web at www.sas.com/india/training

SAS® Global Certification Program

Are you ready to take your career to the next level?

In a recent survey, 83 percent of respondents reported that earning a certification helped them get a promotion.

There's more good news. One of the top reasons listed for pursuing certification is to earn a higher salary: According to this survey, 66 percent do just that!

Let SAS Certification enhance your credibility as a SAS professional and increase your career marketability.

Available Credentials

We offer the following credentials:

- SAS® Certified Base Programmer for SAS®9
- SAS® Certified Advanced Programmer for SAS®9
- SAS® Certified Predictive Modeling Using SAS® Enterprise Miner™ 5.3
- **COMING SOON** – Data Integration credential

Exam Preparation

The chart to the right illustrates various ways to prepare for our exams.

Exam Registration

Register for the predictive modeling exam on the Web at: support.sas.com/courses/cepm.html

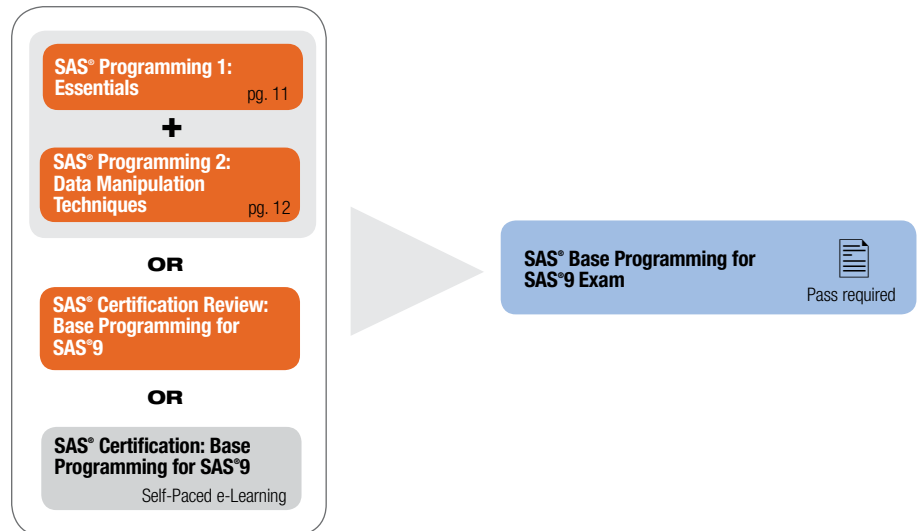
Register for all other SAS Certification exams with Prometric (3,000 testing centers worldwide).

SAS® Certification News Flash

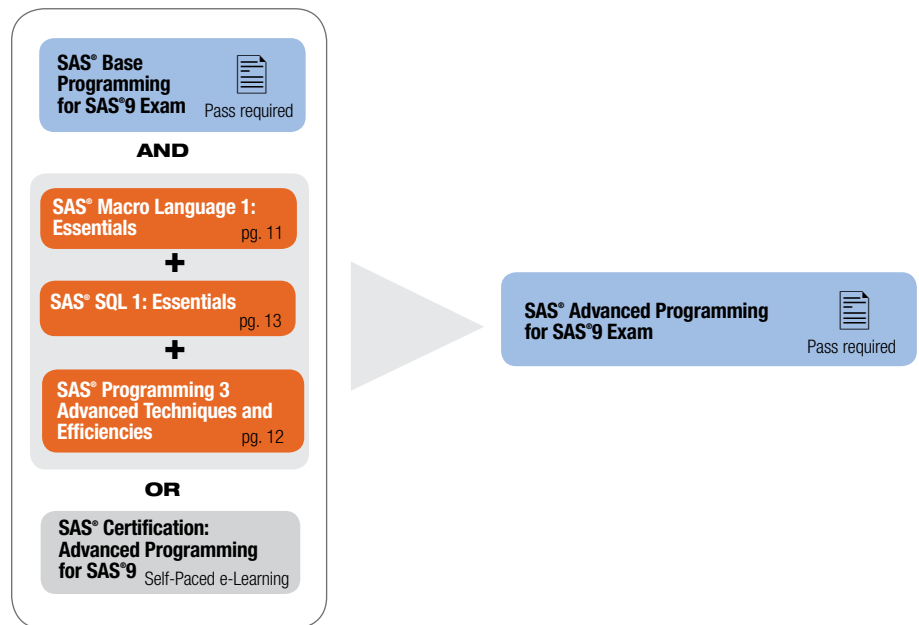
Get the latest SAS Certification news and learn how you can stay ahead of the competition. Subscribe to this bimonthly e-mail newsletter.

To learn more about the SAS® Global Certification Program: support.sas.com/certify

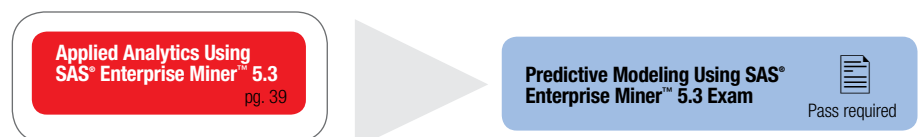
SAS® Certified Base Programmer for SAS®9 Credential



SAS® Certified Advanced Programmer for SAS®9 Credential



SAS® Certified Predictive Modeler Using SAS® Enterprise Miner™ 5.3 Credential



Business Knowledge Series

Gain your competitive edge—training for today's fast-paced world!

SAS' Business Knowledge Series is a unique partnership between SAS and external business professionals who bring their real-world knowledge directly to you.

- Authored by respected practitioners who use SAS to solve common business problems.
- Focused in-depth topics on the latest business developments.
- Extends traditional SAS software training.
- Interactive lectures, software demonstrations and hands-on workshops.

New Courses to the Program

Advanced Analytics for Customer Intelligence Using SAS®

Bart Baesens, PhD, or Christopher Mues, PhD, assistant professors at the School of Management, University of Southampton (UK)

Discrete Choice Modeling Using SAS® Software

Mike Patetta, statistical services specialist in the Education Division at SAS

Making Business Decisions Using Linear Models in SAS®: A Harvard Case Study

F. Michael Speed, PhD, and Simon Sheather, PhD, professors of statistics at Texas A&M University

Multiple Comparisons in SAS®: Classical to Modern Methods

Peter Westfall, PhD, professor of statistics at Texas Tech University and editor of *The American Statistician*

Introduction to Applied Econometrics

Oral Capps, PhD, professor and Southwest Dairy Marketing Endowed Chair in the Department of Agricultural Economics at Texas A&M University

Learn more about the Business Knowledge Series program today! support.sas.com/bks

SAS® e-Lectures

On-demand access to SAS topics for a wide variety of users

Want to brush up on a niche topic? Need time-critical information now?

Check out our new multimedia e-Lectures! Take a 20-40 minute e-Lecture and discover gems of information whenever the time is right for you, 24/7.

What is an e-Lecture?

Our users told us that they often have unique questions they cannot find answers to anywhere else. We listened and created e-Lectures to provide on-target access to a wide variety of topics.

These prerecorded SAS e-Lectures will fit around your busy schedule and within your budget, and you'll get the world-class information you expect from SAS Education!

Categories of training include:

- Business Intelligence
- Data Intelligence
- SAS Programming
- Platform Administration

You will find an expanding list of SAS e-Lectures at support.sas.com/selfpaced



SAS® Press

Expert advice from SAS® users

SAS Press publishes books that are written by SAS users for SAS users. Our books cover an ever-expanding variety of topics, including SAS applications or examples, programming tips and techniques, using SAS with other products, and statistical analysis. The ideas and applications discussed by the authors of SAS Press books represent some of the best ideas in the SAS user community and are an invaluable resource for learning to use SAS software.

View a complete list of SAS Press books: support.sas.com/companionsites

Insights from the authors

Listen to SAS Press authors in a series of podcasts and Web seminar as they discuss behind-the-scenes details about their latest books and share their experiences using SAS: support.sas.com/authorpodcast

Author with SAS® Press

SAS has more than 20 years of publishing experience and is always looking for new authors to write books about using SAS software. If you have an area of expertise or an idea for a topic that you think could be developed into a book or short booklet, please contact us. Our dedicated professional staff of editors, designers, and production specialists provides complete editorial and publishing support.

Learn more about becoming a SAS Press author: support.sas.com/spauthors

On-Site Training Services

Our interactive, in-depth courses, workshops and seminars are affordable, flexible and ideal for small or large groups. Bring our certified instructors on-site to train your team.

You choose:

Course topics: tailored to your needs or have a standard course delivered just for your staff.

Course data: standard course data can be provided or your own data can be used for an additional charge

Dates: to suit your project timescales

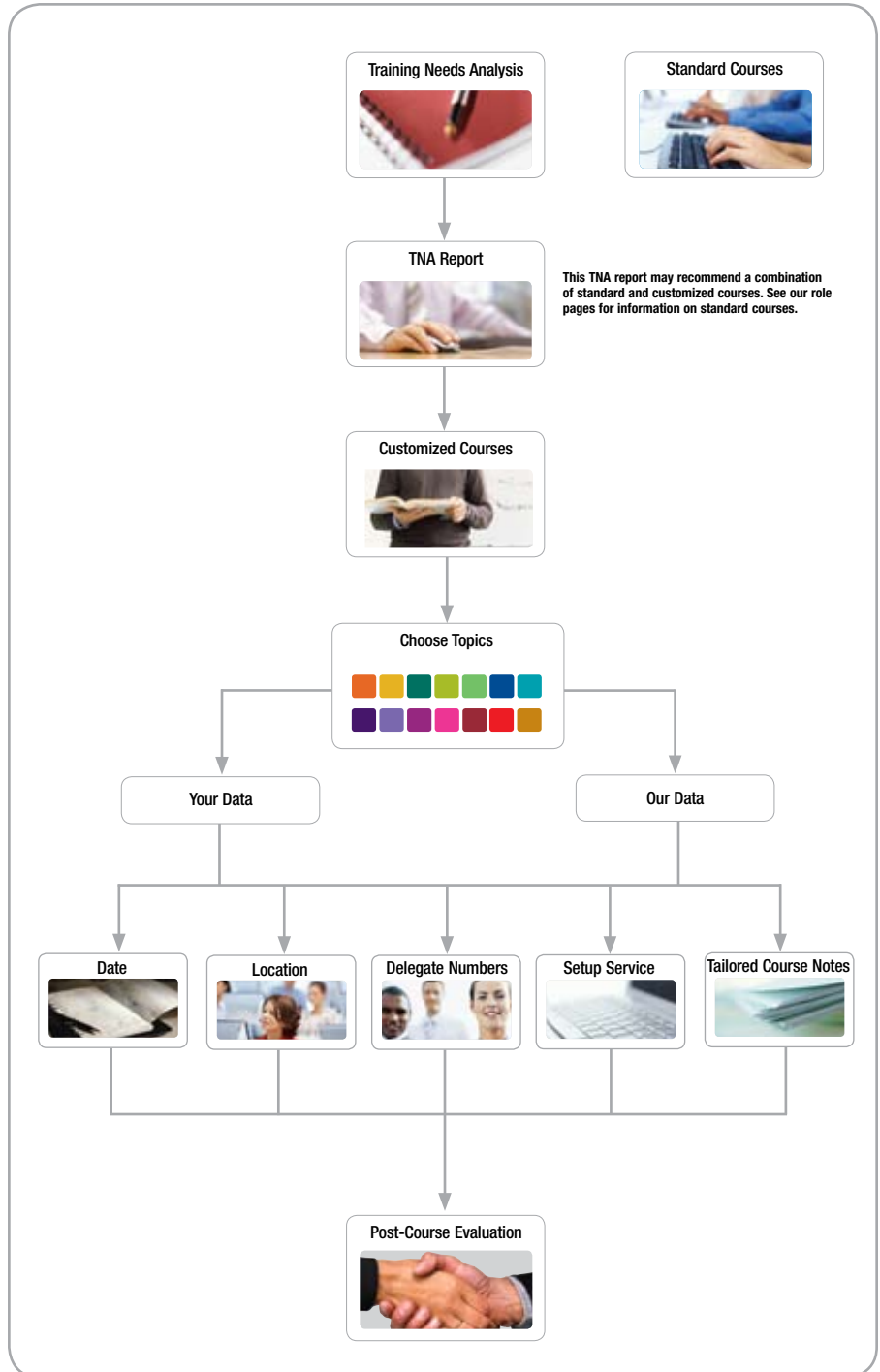
Location: your premises, a SAS Training Center or a third-party location.

Our on-site courses combine lectures, software demonstrations, hands-on computer workshops and course notes.

We deliver:

- SAS accredited instructors
- Course notes and exercises
- Hands-on workshops

To book your on-site event, simply contact your SAS Education Account Representative at [91-22-6749 2222](tel:91-22-6749 2222) or training.india@sas.com.



Authorised Training Partners



EPOCH PROFESSIONAL TRAINING & EDUCATION CENTER GUJ.) PVT. LTD

Epoch Professional Training & Education Center is a full-service SAS Accredited Training Center an EPRI Undertaking.

The endeavor of EPOCH Professional Training & Education Center is to provide SAS® Software Training to Academic Students and Professionals in field of Clinical Research, Pharmaceutical & Biopharmaceutical, who want to amplify their knowledge and give an extra edge to their career. In addition Epoch will also play an important role by becoming a bridge between students and market to shorten "time to market" timeline by providing, well trained, SAS® certified and qualified professionals.



LAXAI

LAXAI SAS ATC strives to fill the shortage for qualified SAS professionals in the pharmaceutical industry by providing quality SAS training customized for the industry requirements. We provide learning opportunities for students, working professionals and those who wish to pursue certifications in SAS

LAXAI believes training and knowledge enhancement is a continuous process. LAXAI has a dedicated training program to address capacity shortages in the areas of GCP, Regulatory Compliance, Data Analytics and Clinical Data Management.



NIIT LTD

India's IT education pioneer, NIIT, has spent over two decades innovating, refining and fine tuning its offerings to suit the needs of students, professionals and employers. Our suite of education programs encompass every kind of learner-from a young person taking his first step into the world of computers, to a student seeking a career in IT, to a professional gaining cutting-edge technology skills

Giraffes get dropped 6 feet to the ground at birth.

They can't avoid rude awakenings.

But you can. With proven performance management software from SAS.

www.sas.com/giraffes



 **sas**

**THE
POWER
TO KNOW**

Know Your Role

SAS®9 offers solutions for a wide variety of users, ranging from business users to programmers and statistical analysts. To find the training path best suited to your needs, simply match your job role to one or more of the examples below. If you can't find the courses you need, then log on to www.sas.com/india.training, contact us at **91-22-6749 2222** or e-mail training.india@sas.com.

SAS® PROGRAMMING

Data Manager



I write SAS programs or use SAS Enterprise Guide to access and manage data and perform complex queries and analyses.

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Report Writer



I write SAS programs or use SAS Enterprise Guide to perform queries and generate reports.

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SAS® ENTERPRISE INTELLIGENCE PLATFORM

Business User



I use SAS' point-and-click applications to access existing information as well as create my own reports and analyses.

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Business Analyst



I understand my organization's data and use applications such as SAS Enterprise Guide to create reports and analyses.

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BI Applications Developer



I'm responsible for building, implementing and customizing SAS interface applications.

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Data Integration Developer



I use SAS applications to collect, store and cleanse data required for reporting and analysis.

pg. 24

Data Integration Architect



I design the architectures and methodologies required for ETL processing, schema development and data quality.

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Platform Administrator



I install, configure, administer, and maintain the SAS Enterprise Intelligence Platform.

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Project Manager



I'm responsible for managing the strategy, objectives and tasks for a SAS project.

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World-Class Teamwork

World-class teamwork combines visionary leadership, a winning strategy and brilliant team players. SAS works with high-performing teams – just like yours – helping you inspire your colleagues and delight your customers with new levels of personal insight and productivity. Whatever role you play in the intelligent enterprise, learning with SAS Education can make all the difference in your career. Explore our role-based learning to find out how.



For a full overview of our courses, please visit <http://www.sas.com/offices/asiapacific/india/training/viewallcourses.htm>

SAS® ANALYTICS

Statistical Analyst



I write SAS programs or use SAS Enterprise Guide to prepare, analyze and interpret statistical data.

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Data Miner



I use SAS Enterprise Miner or write SAS code to construct segments and predictive models.

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Forecaster



I use SAS applications to develop forecasting models to empower the organization to make informed decisions.

pg. 40

Market Researcher



I analyze and interpret market research data using SAS programs and applications.

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Operations Researcher



I help solve business, manufacturing, transportation and supply chain issues using operations research and quality control techniques.

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JMP® Analyst



I use JMP for visualization of my statistical data analyses.

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Six Sigma Professional



I implement Six Sigma methodology to improve processes and reduce variation.

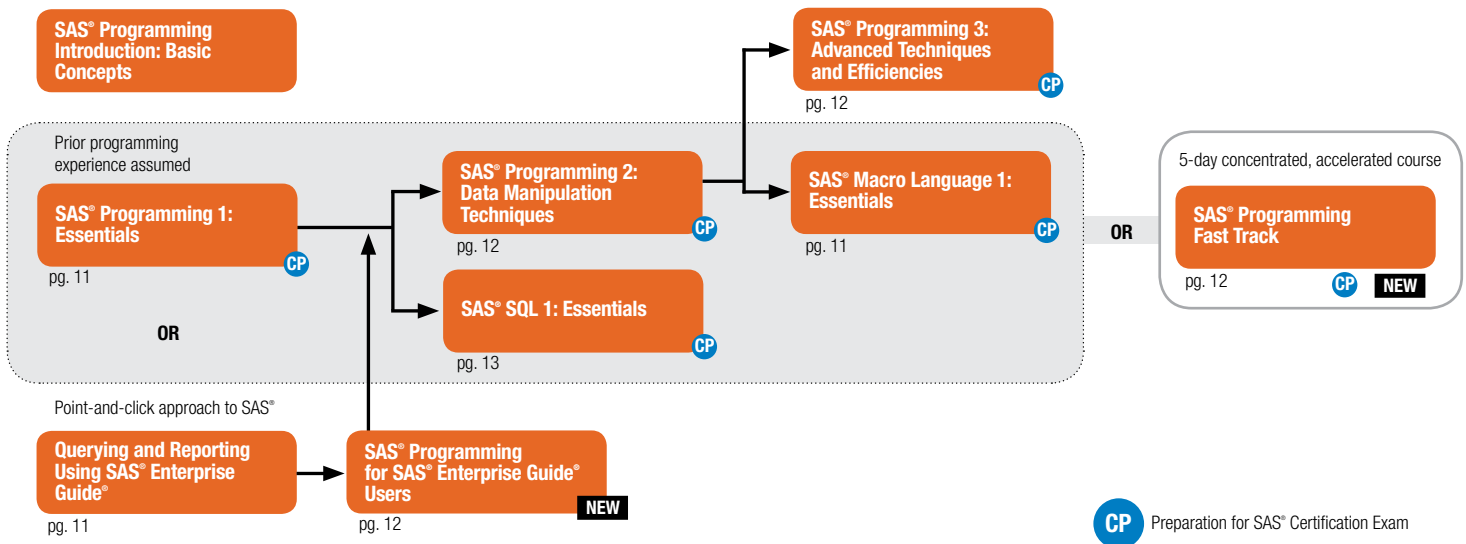
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I'm responsible for accessing and managing data and for performing complex queries and analyses. I write SAS programs or use SAS Enterprise Guide for these tasks.

▶▶ www.sas.com/offices/asiapacific/india/training/datamgr.htm

Want to program but no prior programming experience?



Point-and-click approach to SAS*

Querying and Reporting Using SAS® Enterprise Guide®
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SAS® Programming for SAS® Enterprise Guide® Users
pg. 12 **NEW**

CP Preparation for SAS® Certification Exam

Italicized courses are global offerings and can be presented locally if demand warrants.

Advanced and Specialty Courses

- Advanced Querying Using SAS® Enterprise Guide®
- Data Cleaning Techniques
- Distributed and Parallel Processing with the SAS® System
- Health Care Data and the SAS® System
- SAS® Certification Review: Base Programming for SAS®9 **CP**
- SAS® Functions by Example
- SAS® Macro Language 2: Developing Macro Applications **NEW**

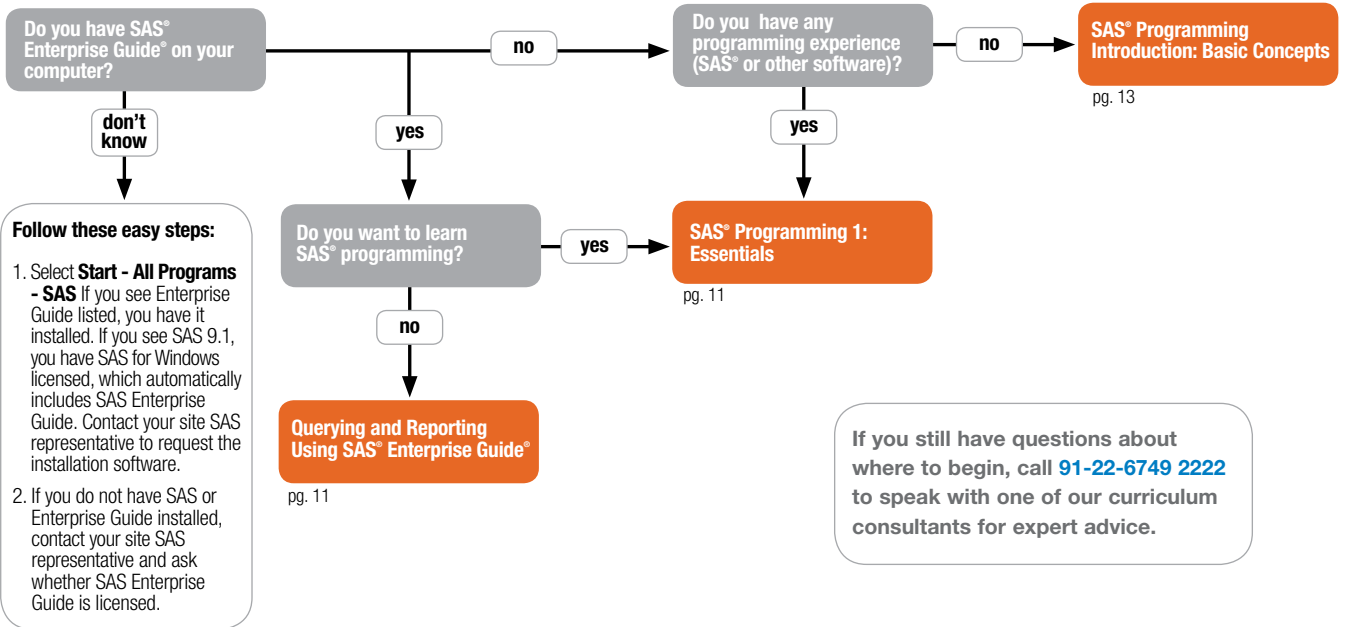
Self-Paced e-Learning Courses

- Advanced SAS® Programming Library
- Advanced SAS® Programming Techniques
- Creating and Modifying SAS® Data Sets
- Introduction to SAS Programming
- Reading Various Types of Raw Data with SAS®
- SAS® Certification: Advanced Programming for SAS®9 **CP**
- SAS® Certification: Base Programming for SAS®9 **CP**
- SAS® Macro Language
- SAS® Programming Introduction: Basic Concepts **NEW**
- SAS® Programming Language
- SQL Processing with SAS®

Recommended Certifications

- SAS® Certified Base Programmer for SAS®9 Credential
 - SAS® Certified Advanced Programmer for SAS®9 Credential
- Please find more information about Certification on page 3.

How to choose where to begin



Querying and Reporting Using SAS Enterprise Guide®

This course is for analysts and statisticians who are not programmers but need to access, manage, and summarize data from different sources, and present results in tables and graphs. This course focuses on using the menu-driven tasks in SAS Enterprise Guide, the point-and-click interface to SAS, to create queries and reports. To learn SAS programming techniques, you should attend the *SAS Programming 1: Essentials* course.

Learn how to:

- access and manipulate local and remote data
- create simple and advanced queries
- create frequency and tabular reports
- create static and interactive graphs
- automate and schedule tasks.

Who should attend: Analysts and statisticians who want to use the menu-driven tasks in SAS Enterprise Guide

Level I: Getting Started

Delivery: Classroom

Duration: 2 days

Learn more:

www.sas.com/offices/asiapacific/india/training/querep_prog.htm

SAS Macro Language 1: Essentials

This course focuses on the components of the SAS macro facility and how to design, write, and debug macro systems. Emphasis is placed on understanding how programs with macro code are processed.

Learn how to:

- perform text substitution in SAS code
- automate and customize the production of SAS code
- conditionally or iteratively construct SAS code
- use macro variables and macro functions.

Who should attend: Experienced SAS programmers who have a sound understanding of DATA step processing and who want to write SAS programs that are reusable and dynamic

Level IV: Advanced

Delivery: Classroom

Duration: 2 days

Certification: This course is suggested preparation for the SAS® Advanced Programming for SAS®9 Exam

Learn more:

www.sas.com/offices/asiapacific/india/training/macro_new.htm

SAS Programming 1: Essentials

This course is for users who want to learn how to write SAS programs. It is the entry point to learning SAS programming and is a prerequisite to many other SAS courses. If you do not plan to write SAS programs and you prefer a point-and-click interface, you should attend the *SAS Enterprise Guide 1: Querying and Reporting* course.

Learn how to:

- navigate the SAS windowing environment
- read various types of data into SAS data sets
- validate and clean SAS data sets
- create SAS variables and subset data
- combine SAS data sets
- create and enhance listing and summary reports.

Who should attend: Anyone getting started writing SAS programs

Level II: Fundamentals

Delivery: Classroom

Duration: 3 days

Certification: This course is suggested preparation for the SAS® Base Programming for SAS®9 Exam

Learn more:

www.sas.com/offices/asiapacific/india/training/prog1_new.htm

SAS® Programming 2: Data Manipulation Techniques

This course is for those who need to learn SAS DATA step programming techniques for processing, controlling, and manipulating SAS data sets. The course builds on the concepts that are presented in the SAS® *Programming 1: Essentials* course and is not recommended for beginning SAS software users.

Learn how to:

- control SAS data set input and output
- combine SAS data sets
- summarize, read, and write different types of data
- perform DO loop and SAS array processing
- transform character, numeric, and date variables.

Who should attend: Business analysts and SAS programmers

Level III: Intermediate

Delivery: Classroom

Duration: 3 days

Certification: This course is suggested preparation for the SAS® Base Programming for SAS®9 Exam

Learn more:

www.sas.com/offices/asiapacific/india/training/prog1_new.htm

SAS® Programming 3: Advanced Techniques and Efficiencies

This course is for SAS programmers who prepare data for analysis. The comparisons of manipulation techniques and resource cost benefits are designed to help programmers choose the most appropriate technique for their data situation.

Learn how to compare various SAS programming techniques that enable you to:

- control memory, I/O, and CPU resources
- create and use indexes
- combine data horizontally and vertically
- use hash and hiter DATA step component objects, arrays, and formats as lookup tables
- compress SAS data sets
- sample your SAS data sets.

Who should attend: Experienced SAS programmers

Level IV: Advanced

Delivery: Classroom

Duration: 3 days

Certification: This course is suggested preparation for the SAS® Advanced Programming for SAS®9 Exam

Learn more:

www.sas.com/offices/asiapacific/india/training/prog3_new.htm

SAS® Programming Fast Track

This intensive training course provides accelerated learning in the area of SAS programming. The course presents a variety of topics related to SAS programming that are covered in the SAS® *Programming 1: Essentials*, SAS® *Programming 2: Data Manipulation Techniques*, SAS® *Macro Language 1: Essentials*, and SAS® *SQL 1: Essentials* courses.

Learn how to:

- create SAS data sets from raw data files, SAS data sets, and Excel spreadsheets
- subset data
- combine SAS data sets
- create variables
- use macro variables
- use SAS SQL processing techniques
- write reports.

Who should attend: Anyone who needs a solid foundation for programming in SAS in an accelerated time frame

Level IV: Advanced

Delivery: Classroom

Duration: 5 days

Certification: This course is suggested preparation for the SAS® Base Programming for SAS®9 Exam

Learn more:

support.sas.com/courses/prgfast.html

SAS® Programming for SAS® Enterprise Guide® Users

This course is for experienced SAS Enterprise Guide users who want to gain extra value from the product by understanding the code that it generates and methods of enhancing that code. The course will serve as a transition into the programming world of SAS and serves as a prerequisite for SAS® *Programming 2: Data Manipulation Techniques*.

Learn how to:

- analyze the way in which SAS Enterprise Guide and SAS programs work together
- evaluate the structure and syntax of a SAS program
- manipulate SAS data sets using the DATA step
- read delimited text files using the DATA step
- merge tables and isolate matching and non-matching rows using the DATA step
- customize task output by modifying code that is generated by SAS Enterprise Guide.

Who should attend: SAS Enterprise Guide users who are interested in learning about writing SAS programs and modifying the SAS code generated by SAS Enterprise Guide

Level III: Intermediate

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/egprg1.html

SAS® Programming Introduction: Basic Concepts

This course is for beginning computer users who want to write simple SAS programs. The course is a subset of the *SAS® Programming 1: Essentials* course. If you do not plan to write SAS programs and prefer a point-and-click interface to SAS, you should attend the *SAS® Enterprise Guide® 1: Querying and Reporting* course.

Learn how to:

- plan and write simple SAS programs to solve common data analysis problems
- create simple list and summary reports
- define new data columns (variables)
- execute conditional code
- navigate the SAS windowing environment.

Who should attend: Beginning computer users who want to write simple SAS programs

Level I: Getting Started

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/intro.html

SAS® SQL 1: Essentials

This course teaches you how to process SAS data using Structured Query Language (SQL).

Learn how to:

- query and subset data
- summarize and present data
- combine tables, including complex joins and merges
- create and modify table views and indexes
- replace multiple DATA and PROC steps with one SQL query.

Who should attend: SAS programmers and business analysts

Level III: Intermediate

Delivery: Classroom

Duration: 2 days

Certification: This course is suggested preparation for the SAS® Advanced Programming for SAS®9 Exam

Learn more:

support.sas.com/courses/sql1.html



Meet Qurratul-Ain Shaikh (Aini)

Qurratul-Ain Shaikh began her Career at SAS as a Consultant, joining the company in 2007. She has a bachelor's degree in art and diploma in Electronics and Radio Engineering. She has over 9 years of extensive training experience in Data warehousing technologies.

One of Aini's students said:

"Aini is an awesome instructor! She is excellent at presenting the information in such a way to make it understandable and willing to answer questions that are beyond the scope of the material covered in class. I was very impressed.



I'm responsible for performing queries and generating reports. I write SAS programs or use SAS Enterprise Guide to perform these tasks.

▶▶ www.sas.com/offices/asiapacific/india/training/repwriter.htm

Want to program but no prior programming experience?

SAS® Programming Introduction: Basic Concepts

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Prior programming experience assumed

SAS® Programming 1: Essentials

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OR

Point-and-click approach to SAS®

Querying and Reporting Using SAS® Enterprise Guide®

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SAS® Programming for SAS® Enterprise Guide® Users

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SAS® Report Writing 1: Using Procedures and ODS

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NEW

SAS® Color Graphics

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CP Preparation for SAS® Certification Exam

Italicized courses are global offerings and can be presented locally if demand warrants.

Advanced and Specialty Courses

Advanced Output Delivery System Topics

Self-Paced e-Learning Courses

Creating and Viewing Reports Using SAS® Enterprise Guide®

Introduction to SAS® Programming

Producing Graphical Reports with SAS®

SAS® Programming Introduction: Basic Concepts

NEW

SAS® Programming Library

SAS® Certification: Base Programming for SAS®9 **CP**

SAS® Color Graphics

This course teaches you how to produce high-quality presentation graphics using SAS/GRAPH® software.

Learn how to:

- control the appearance of text in reports
- create two-dimensional displays of data
- create bar charts and pie charts
- create geographic representations of data
- produce clickable and printable graphic reports.

Who should attend: Experienced SAS programmers

Level III: Intermediate

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/grap9.html

SAS® Report Writing 1: Using Procedures and ODS

This course teaches you how to create detailed tabular, summary, and listing reports. You also learn how to send report output to the major Output Delivery System (ODS) destinations.

Learn how to:

- use PROC REPORT to generate tabular detail reports, detail reports with subtotals and grand totals, and detail reports with computed columns
- generate summary reports based on GROUP, ACROSS, or CLASS variables using PROC REPORT and PROC TABULATE
- insert appropriate summary lines into reports
- send report output to the RTF, PDF, and HTML destinations
- change reports using ODS options and style overrides.

Who should attend: SAS programmers, data managers, report writers, and analysts who must generate reports with PROC REPORT and PROC TABULATE and who are familiar with basic SAS procedure syntax and logic

Level III: Intermediate

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/rpt1.html



Meet Sudeesh S

Sudeesh S has a total experience of 10 years, of which more than 6 years in academics, teaching for Management students and corporate training and approximately one year worked in IT programming area and two years in SAS Product Trainings.

Sudeesh has a Bachelor's degree in mechanical engineering and a post graduate degree in IT and Systems. Sudeesh has been teaching in SAS since October 2006. He specializes in teaching analytics and related courses.

What Sudeesh's students said:

"Sudeesh is an excellent trainer. Writes one student. "He obviously understands not only how, but why the application works," agrees another student, "and he gave us numerous helpful tips which will save time and reduce frustration."



I access existing information as well as create my own reports and analyses using point-and-click applications. I use SAS Add-In for Microsoft Office, SAS Web Report Studio, and the SAS Information Delivery Portal.

►► www.sas.com/offices/asiapacific/india/training/buser.html

Italicized courses are global offerings and can be presented locally if demand warrants.

SAS 9.2

SAS® Business Intelligence Reporting 1: Essentials

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NEW

SAS® Business Intelligence Reporting 2: Additional Topics

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NEW

Advanced and Specialty Courses

Accessing SAS® from Microsoft Office Applications

NEW

Personalizing the SAS® Information Delivery Portal

NEW

Using SAS® Web Report Studio

NEW

SAS 9.1.3

Accessing SAS® from Microsoft Office Applications

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Using SAS® Web Report Studio for Thin-Client Reporting

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Accessing Information Using the SAS® Information Delivery Portal

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Self-Paced e-Learning Courses

Creating Information Maps Using SAS® Information Map Studio

Creating and Viewing OLAP Cubes

Creating and Viewing Reports Using SAS® Web Report Studio

Developing Stored Processes Using SAS® Enterprise Guide®

Enterprise BI Library with SAS® Enterprise Guide®

Querying, Reporting, and Analyzing Data Using SAS® Enterprise Guide®

SAS 9.2 COURSES

SAS® Business Intelligence Reporting 1: Essentials

This course teaches how to access reports and analyze data using several of the business user applications in the SAS Intelligence Platform.

Learn how to:

- identify the various types of reports
- work with SAS analyses
- interact with multidimensional data
- access SAS data sources
- create reporting presentations.

Who should attend: Business users

Level I: Getting Started

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/sbu1.html

SAS® Business Intelligence Reporting 2: Additional Topics

This course expands on the knowledge learned in the *SAS® Business Intelligence Reporting 1: Essentials* course and provides additional information for using several of the business user applications in the SAS Intelligence Platform.

Learn how to:

- build and enhance SAS reports on the Web using advanced features
- access different types of data sources and run advanced SAS analyses in Microsoft Office applications
- share reports across your organization.

Who should attend: Business users

Level II: Fundamentals

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/sbu2.html

SAS 9.1.3 COURSES

Accessing Information Using the SAS® Information Delivery Portal

This course focuses on using the SAS Information Delivery Portal to view content developed in the SAS Business Intelligence environment. This course requires the SAS Intelligence Platform.

Learn how to:

- navigate the SAS Information Delivery Portal
- change preferences in the portal to customize your view
- add and arrange pages in your portal view
- add and organize content in pages
- interact with SAS reports and SAS Stored Processes
- access SAS Information Maps containing relational and multidimensional data.

Who should attend: Business analysts, information consumers, and business decision makers who use the SAS Information Delivery Portal to view business reports

Level I: Getting Started

Delivery: Classroom

Duration: 1 day

Learn more:

support.sas.com/courses/sbiidp.html

Accessing SAS® from Microsoft Office Applications

This course provides an overview of SAS Add-In for Microsoft Office and shows how it can be used to access SAS information directly from Microsoft Office applications. This course requires the SAS Intelligence Platform.

Learn how to:

- access and filter existing SAS data
- use SAS data sources in PivotTables
- create customized bar charts and summary tables
- use stored processes, SAS tasks, and wizards to create reports
- create spreadsheets, documents, and slides from SAS output.

Who should attend: Microsoft Office users who want to work with SAS data to create reports and perform analyses

Level I: Getting Started

Delivery: Classroom

Duration: 1 day

Learn more:

support.sas.com/courses/sbiamo.html

Using SAS® Web Report Studio for Thin-Client Reporting

This course teaches you how to create, modify, and interact with reports using SAS Web Report Studio. Little or no experience in other reporting tools or database technology is required. The course requires the SAS Intelligence Platform.

Learn how to:

- open existing reports
- create new reports
- schedule reports
- include SAS stored processes in a report
- open reports in the SAS Information Delivery Portal.

Who should attend: Anybody who wants to use a Web-based interface to open, create, and interact with reports using SAS data sources

Level I: Getting Started

Delivery: Classroom

Duration: 1 day

Learn more:

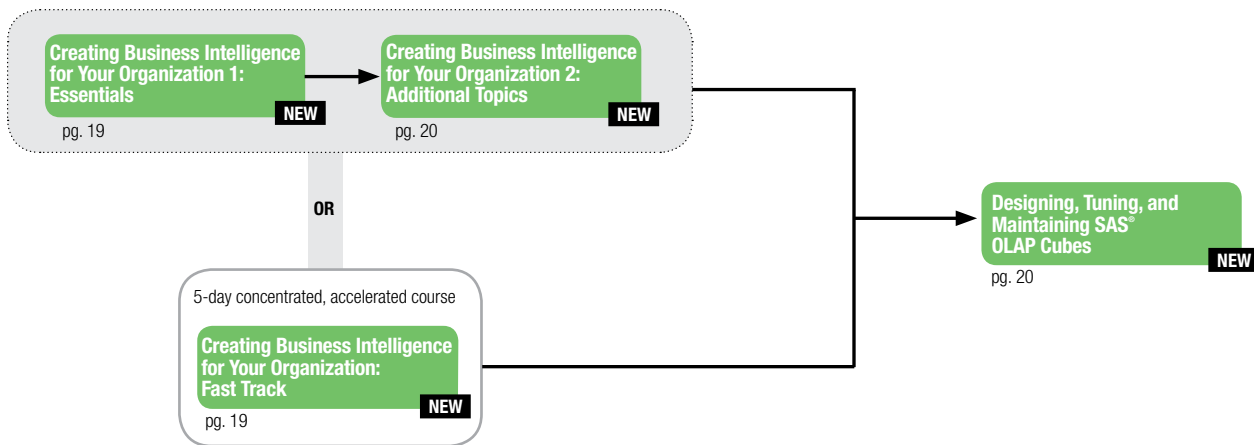
support.sas.com/courses/sbiwrs.html



I understand my organization's data and the applications I need to create reports and analyses. I use SAS Enterprise Guide as well as OLAP methods and may create stored processes and information maps.

▶▶ www.sas.com/offices/asiapacific/india/training/ba.html

SAS 9.2



Italicized courses are global offerings and can be presented locally if demand warrants.

Advanced and Specialty Courses

SAS® Enterprise Guide® 1: Querying and Reporting **NEW**

SAS® Visual BI: Dynamic Data Visualization **NEW**

SAS 9.1.3

Querying and Reporting
Using SAS® Enterprise
Guide®

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Overview of SAS® Business
Intelligence and Data
Integration Applications

pg. 21

Creating, Distributing, and
Using SAS® Stored Processes

pg. 21

Creating and Exploiting OLAP
Using the SAS® System

pg. 21

Using SAS® Information
Map Studio to Create
Information Maps

pg. 21

OR

5-day concentrated, accelerated course

SAS®9 Business Intelligence
Fast Track

pg. 21

Italicized courses are global offerings and can be presented locally if demand warrants.

Advanced and Specialty Courses

Advanced OLAP Techniques Using the
SAS® System

Advanced Querying Using
SAS® Enterprise Guide®

SAS® BI Dashboard: Developing and
Using Dashboards

SAS® Visual BI: Dynamic Data Visualization

Self-Paced e-Learning Courses

Creating Information Maps Using
SAS® Information Map Studio

Creating and Viewing OLAP Cubes

Creating and Viewing Reports Using
SAS® Web Report Studio

Developing Stored Processes Using
SAS® Enterprise Guide®

Enterprise BI Library with
SAS® Enterprise Guide®

Querying, Reporting, and Analyzing Data
Using SAS® Enterprise Guide®

SAS 9.2 COURSES

Creating Business Intelligence for Your Organization: Fast Track

This intensive training course provides accelerated learning for those students who will build reports, analyses, and dashboards for consumption by business users and other information consumers in their organization. This course is for individuals who are comfortable with learning large amounts of information in a short period of time. The *Creating Business Intelligence for Your Organization 1: Essentials* and *Creating Business Intelligence for Your Organization 2: Additional Topics* courses are available to provide the same type of information in a much more detailed approach over a longer period of time.

Learn how to:

- use several of the business user applications in the SAS Intelligence Platform
- create and exploit dynamic value selection
- build advanced information maps using SAS Information Map Studio
- generate and update information maps programmatically
- build, schedule, and distribute advanced reports
- produce advanced stored processes able to create dynamic data sources

- create advanced SAS BI Dashboard applications
- consolidate information into a business reporting application
- examine the types of metadata created in the SAS Intelligence Platform.

Who should attend: Business analysts

Level III: Intermediate

Delivery: Classroom

Duration: 5 days

Learn more:

support.sas.com/courses/sbaft.html

Creating Business Intelligence for Your Organization 1: Essentials

This course teaches how to build reports, analyses, and dashboards for consumption by business users and other information consumers in your organization.

Learn how to:

- use several of the business user applications in the SAS Intelligence Platform
- build SAS Information Maps, SAS Stored Processes, and SAS BI Dashboards
- consolidate information into a business reporting application



Meet John

John has 10 years experience in IT training industry. He has a bachelor's degree in commerce and a diploma in software engineering. John has been teaching at SAS since 2007 and loves all aspects of being an instructor. John specializes in teaching Business Intelligence and related courses

What John's students said:

Students describe John's teaching style as "lively," "vibrant, warm, enthusiastic," and "fun." "(John) knew his course material very well," commented one student. "All of my questions were answered, he was easy to understand, and I felt that he took a personal interest in each student."

- examine the types of metadata created in the SAS Intelligence Platform
- create multidimensional data sources.

Who should attend: Business analysts

Level II: Fundamentals

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/sba1.html

Creating Business Intelligence for Your Organization 2: Additional Topics

This course expands on the knowledge learned in the *Creating Business Intelligence for Your Organization 1: Essentials* course and provides advanced techniques for building SAS Information Maps, SAS Reports, SAS Stored Processes, and SAS BI Dashboards.

Learn how to:

- create and exploit dynamic value selection
- build advanced information maps using SAS Information Map Studio
- generate and update information maps programmatically
- build, schedule, and distribute advanced reports
- produce advanced stored processes able to create dynamic data sources
- build advanced SAS BI Dashboard applications
- consolidate information into a business reporting application.

Who should attend: Business analysts

Level III: Intermediate

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/sba2.html

Designing, Tuning, and Maintaining SAS® OLAP Cubes

This course teaches how to use the SAS OLAP environment to build, tune, and maintain multidimensional cubes.

Learn how to:

- access requirements and examine options for building efficient OLAP cubes
- create and set security on SAS OLAP cubes
- extend cube functionality using both wizards and the Multidimensional Expressions (MDX) language
- tune a SAS OLAP cube and perform cube maintenance
- use an OLAP cube in reporting applications.

Who should attend: Business analysts

Level III: Intermediate

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/sbaolap.html

SAS 9.1.3 COURSES

Creating and Exploiting OLAP Using the SAS® System

This course teaches you how to understand, create, and exploit Online Analytical Processing (OLAP) using SAS. This course requires the SAS Intelligence Platform.

Learn how to:

- create SAS OLAP cubes derived from detail tables and star schemas
- generate aggregations using cross-dimensional tuning and ARM analysis
- set access permissions for SAS OLAP cubes
- exploit SAS OLAP cubes
- use MDX in SAS Enterprise Guide to perform basic queries and create named sets.

Who should attend: Data modelers and system experts

Level II: Fundamentals

Delivery: Classroom

Duration: 2 days

Learn more:

www.sas.com/offices/asiapacific/india/training/di_prog3.htm

Creating, Distributing, and Using SAS® Stored Processes

This course teaches you how to create SAS programs that can be distributed to many users and run within many applications. This course requires the SAS Intelligence Platform.

Learn how to:

- use the SAS Management Console or SAS Enterprise Guide to create and register stored processes
- design stored processes to use input parameters and set parameter constraints
- execute stored processes within the SAS Add-In for Microsoft Office, SAS Enterprise Guide, and SAS Web Report Studio
- create transient and permanent result packages.

Who should attend: Business analysts, report designers, and programmers

Level III: Intermediate

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/sbisp.html

Overview of SAS® Business Intelligence and Data Integration Applications

This course provides a comprehensive, hands-on overview of the SAS Intelligence Platform applications, including the data integration applications.

Learn how to:

- use SAS Management Console
- use SAS Data Integration Studio
- create an OLAP cube using SAS OLAP Cube Studio
- access data, create reports, and perform analyses using the SAS Add-In for Microsoft Office
- write stored process code and register stored processes
- build business views of enterprise data
- access existing information using the SAS Information Delivery Portal.

Who should attend: Business users, data warehouse architects, and SAS system administrators

Level II: Fundamentals

Delivery: Classroom

Duration: 2 days

Learn more:

www.sas.com/offices/asiapacific/india/training/overview_bi.htm

SAS®9 Business Intelligence Fast Track

This intensive training course provides accelerated learning for those who will use SAS Business Intelligence applications. This course is for individuals who are comfortable with learning large amounts of information in a short period of time. The *Creating and Exploiting OLAP Using the SAS® System*; *Creating, Distributing, and Using SAS® Stored Processes*; and *Using SAS® Information Map Studio to Create Information Maps* courses are available to provide the same type of information in a more detailed approach over a longer period of time.

Learn how to:

- create and manage metadata using SAS Management Console
- analyze data and create stored processes using SAS Enterprise Guide
- build information maps using SAS Information Map Studio
- build OLAP cubes using SAS OLAP Cube Studio
- create reports with SAS Web Report Studio
- access information using the SAS Information Delivery Portal.

Who should attend: Business analysts who need to learn the SAS Business Intelligence applications in a short period of time

Level IV: Advanced

Delivery: Classroom

Duration: 5 days

Learn more:

support.sas.com/courses/sbifast.html

Using SAS® Information Map Studio to Create Information Maps

This course teaches you how to build information maps of enterprise data for reporting and analysis. To successfully build information maps, you need to understand your enterprise data and the knowledge level of the people using those maps. This course requires the SAS Intelligence Platform.

Learn how to:

- build simple information maps from relational and multidimensional data sources
- enhance information maps
- build information maps with filters
- build a stored process that provides data to an information map
- use information maps in various SAS Business Intelligence desktop and Web browser applications.

Who should attend: Experienced data modelers and data architects

Level II: Fundamentals

Delivery: Classroom

Duration: 1 day

Learn more:

support.sas.com/courses/sbiims.html



I'm responsible for building, implementing and customizing applications. I use SAS development applications such as SAS/AF, SAS AppDev Studio and SAS/IntrNet.

▶ www.sas.com/offices/asiapacific/india/training/biad.html

Italicized courses are global offerings and can be presented locally if demand warrants.

SAS 9.2

Building Java-Based Web Applications with SAS® 1

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NEW

Building Java-Based Web Applications with SAS® 2

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NEW

Customizing SAS® Web Applications

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NEW

Advanced and Specialty Courses

Creating Applications Using SAS/IntrNet® and SAS® Stored Processes

NEW

Developing Applications with SAS/AF® Software

NEW

Developing Applications with SAS/IntrNet® Software

NEW

Developing Custom Portlets for the SAS® Information Delivery Portal

NEW

SAS 9.1.3

Developing Java Web Applications Using SAS® AppDev Studio™ Plug-ins

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Advanced and Specialty Courses

SAS/AF® Software: Application Development I

SAS/AF® Software: Application Development II

SAS® Web Tools: Advanced Dynamic Solutions Using SAS/IntrNet® Software

SAS® Web Tools: Static and Dynamic Solutions Using SAS/IntrNet® Software

SAS 9.2 COURSES

Building Java-Based Web Applications with SAS® 1

This course provides an introduction to using SAS AppDev Studio to build Java-based Web applications.

Learn how to:

- work with the Eclipse development environment and SAS AppDev Studio plug-ins
- identify the fundamental elements of Web applications
- build application components using SAS relational data, information maps, stored processes and reports.

Who should attend: BI applications developers

Level II: Fundamentals

Delivery: Classroom

Duration: 2 days

Learn more:
support.sas.com/courses/sbiad1.html

Building Java-Based Web Applications with SAS® 2

This course expands on the knowledge acquired in *Building Java-based Web Applications with SAS® 1*, and it shows how to add interfaces, graphics, and forms into Web applications using SAS AppDev Studio.

Learn how to:

- create an application interface
- build applications that contain SAS relational data, information maps, stored processes, and reports
- display information graphically
- manage forms with JavaScript.

Who should attend: BI applications developers

Level IV: Advanced

Delivery: Classroom

Duration: 3 days

Learn more:
support.sas.com/courses/sbiad2.html

Customizing SAS® Web Applications

This course provides information on how to manage and customize SAS Web applications including SAS Web Report Studio and the SAS Information Delivery Portal.

Learn how to:

- create a customized theme
- change default preferences
- administer the Public Kiosk
- manage common elements in SAS Web Report Studio.

Who should attend: BI applications developers

Level III: Intermediate

Delivery: Classroom

Duration: 2 days

Learn more:
support.sas.com/courses/sbiadcwa.html

SAS 9.1.3 COURSES

Developing Java Web Applications Using SAS® AppDev Studio™ Plug-Ins

This course introduces a method for developing Web applications that uses the power of server-side Java to generate dynamic content. Using the Eclipse development environment and the SAS AppDev Studio 3.2 Eclipse Plug-ins, you learn to build JavaServer Pages and servlet applications that instantly connect to SAS servers.

Learn how to:

- create a Web application that consists of JavaServer pages and servlets that access SAS data sources
- take advantage of the full analytic and computational capabilities of SAS software.

Who should attend: Experienced Java application developers

Level III: Intermediate

Delivery: Classroom

Duration: 3 days

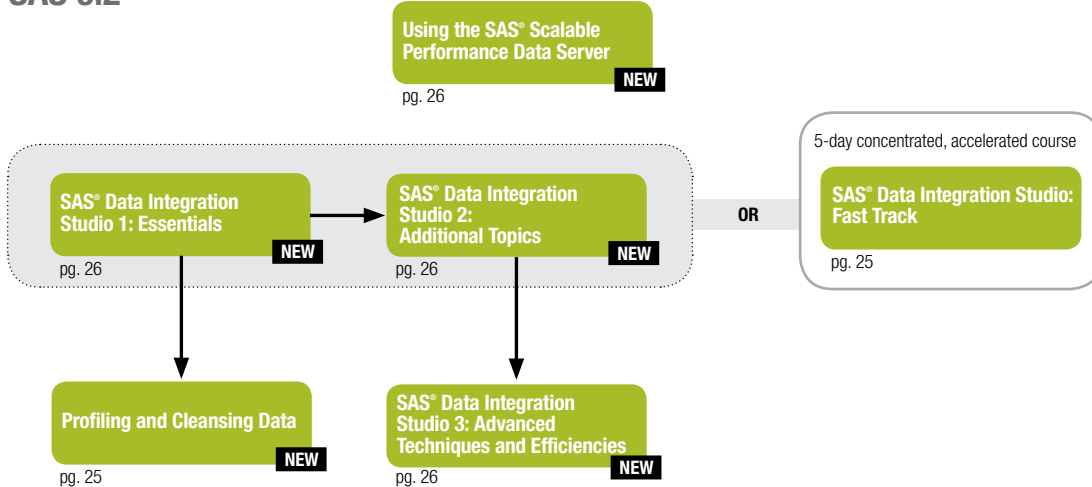
Learn more:
support.sas.com/courses/sbiads.html



I collect, store, and cleanse data in preparation for reporting and analysis. I use applications such as SAS Data Integration Studio, the SAS Data Quality solution, and SAS Information Map Studio. I may also use OLAP techniques and write SAS code.

►► www.sas.com/offices/asiapacific/india/training/didev.html

SAS 9.2



Italicized courses are global offerings and can be presented locally if demand warrants.

Advanced and Specialty Courses

Designing, Tuning, and Maintaining
SAS[®] OLAP Cubes

Self-Paced e-Learning Courses

An Introduction to Data Warehousing

SAS 9.1.3

Overview of SAS® Business Intelligence and Data Integration Applications

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Using the SAS® Scalable Performance Data Server®

pg. 27

Using SAS® Data Integration Studio to Build Data Marts from Enterprise Data Sources

pg. 27

Using SAS® Data Integration Studio to Create Efficient ETL Processes

pg. 27

Using the SAS® Data Quality Solution to Cleanse Your Data

pg. 27

OR

5-day concentrated, accelerated course

SAS®9 Data Integration Fast Track

pg. 27

Italicized courses are global offerings and can be presented locally if demand warrants.

Advanced and Specialty Courses

Advanced OLAP Techniques Using the SAS® System

Creating and Exploiting OLAP Using the SAS® System

Self-Paced e-Learning Courses

An Introduction to Data Warehousing

Creating an ETL Process Flow Using SAS® Data Integration Studio

Creating and Viewing OLAP Cubes

SAS 9.2 COURSES

Profiling and Cleansing Data

This course teaches how to implement a data quality strategy. The course also discusses data monitoring and profiling.

Learn how to:

- understand the data quality methodology as well as the roles and applications used for implementing data quality
- work with data profiling
- create a data standardization scheme and use it to standardize data
- use data quality and data cleansing techniques such as parsing, concatenation, identification, and gender analysis
- cluster and de-duplicate information
- implement data monitoring.

Who should attend: Data integration developers

Level IV: Advanced

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/dipcd.html

SAS® Data Integration Studio: Fast Track

This intensive training course provides accelerated learning for those students who will register sources and targets; create and deploy jobs; work with transformations; set up change management; work with slowly changing dimensions; and understand status handling and change data capture. This course is for individuals who are comfortable with learning large amounts of information in a short period of time. The SAS® *Data Integration Studio I: Essentials* and SAS® *Data Integration Studio II: Additional Topics* courses are available to provide the same type of information in a much more detailed approach over a longer period of time.

Learn how to:

- register source data and target tables
- create jobs and explore the functionality of the Process Designer
- work with many of the various transformations
- enhance table relationships using integrity constraints, key, and indexes
- work with slowly changing dimensions
- create custom transformation with the Transformation Generation Wizard
- document and deploy jobs
- administer SAS Data Integration Studio
- incorporate data quality techniques (self-study).

Who should attend: Data integration developers

Level IV: Advanced

Delivery: Classroom

Duration: 5 days

Learn more:

support.sas.com/courses/dift.html

SAS® Data Integration Studio 1: Essentials

This course introduces SAS Data Integration Studio and shows you how to register sources and targets; create and deploy jobs; and work with transformations.

Learn how to:

- register source data and target tables
- create jobs and explore the functionality of the Process Designer
- work with many of the various transformations
- document and deploy jobs
- use Impact Analysis and job performance statistics
- build a SAS OLAP cube and SAS Information Map (self-study).

Who should attend: Data integration developers and data integration architects

Level III: Intermediate

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/di1.html

SAS® Data Integration Studio 2: Additional Topics

This course expands on the knowledge learned in *SAS® Data Integration Studio I: Essentials* and provides additional information on setting up change management and working with slowly changing dimensions, as well as status handling and change data capture.

Learn how to:

- set up change management
- enhance table relationships using integrity constraints, key, and indexes
- work with slowly changing dimensions
- create custom transformations with the Transformation Generator Wizard
- administer SAS Data Integration Studio
- include data quality techniques (self-study).

Who should attend: Data integration developers

Level IV: Advanced

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/di2.html

SAS® Data Integration Studio 3: Advanced Techniques and Efficiencies

This course expands on the knowledge gained in *SAS® Data Integration Studio II: Additional Topics* or *SAS® Data Integration Studio: Fast Track*, and it provides additional information on environment setup and security as well as on tracking efficiencies and optimizing sorts and joins.

Learn how to:

- track efficiencies of ETL flow, transformation, and column optimization, and work with intermediate files
- tune and optimize sorts and joins
- work with databases
- understand near-real-time techniques
- use the Table Server.

Who should attend: Data integration developers

Level IV: Advanced

Delivery: Classroom

Duration: 2

Learn more:

support.sas.com/courses/di3.html

Using the SAS® Scalable Performance Data Server®

This course provides an overview of SPD Server architecture and data and index storage in the SPD Server. This course also covers installing the SPD Server, using SPD Server SQL Pass-Through, and optimizing SPD Server resources.

Learn how to:

- install the SPD Server under UNIX and Windows
- configure the SPD Server
- administer and maintain the SPD Server
- store and load data in the SPD Server
- create and store indexes in the SPD Server
- use the SQL Pass-Through Facility
- optimize SPD Server performance.

Who should attend: SAS programmers, UNIX or Windows administrators, and administrators of the SAS Scalable Performance Data Server under Windows or UNIX

Level IV: Advanced

Delivery: Classroom

Duration: 3 days

Learn more:

www.sas.com/offices/asiapacific/india/training/di_prog4.htm

SAS 9.1.3 COURSES

SAS[®] Data Integration Fast Track

This intensive training course provides accelerated learning for those who will use SAS Data Integration processes, including data cleansing and enrichment, ETL processing, and data federation. The *Using SAS[®] Data Integration Studio to Build Data Marts from Enterprise Data Sources*; *Using SAS[®] Data Integration Studio to Create Efficient ETL Processes*; and *Using the SAS[®] Data Quality Solution to Cleanse Your Data* courses are available to provide the same type of information in a more detailed approach over a longer period of time.

Learn how to:

- create data mart/data warehouse tables necessary for querying and reporting
- deploy jobs for scheduling
- maintain jobs that build tables by tracking efficiencies
- incorporate data quality standards in ETL flows
- perform maintenance of the Quality Knowledge Base
- where possible, take advantage of the SAS Scalable Performance Data Server.

Who Should Attend: Data integration developers who need to learn the SAS Data Integration process in a short period of time

Level IV: Advanced

Delivery: Classroom

Duration: 5 days

Learn more:

support.sas.com/courses/difast.html

Using SAS[®] Data Integration Studio to Build Data Marts from Enterprise Data Sources

This course provides an overview of SAS Data Integration Studio, formerly known as SAS ETL Studio. This course requires the SAS Intelligence Platform.

Learn how to:

- set up and work in a change management environment

- define metadata for sources, targets, jobs, and OLAP cubes
- generate reports on target tables using SAS Data Integration Studio transformations
- design customized transformations using Transformation Generator and deploy jobs as stored processes
- schedule jobs.

Who Should Attend: ETL designers and data modelers

Level III: Intermediate

Delivery: Classroom

Duration: 3 days

Learn more:

www.sas.com/offices/asiapacific/india/training/di_prog1.htm

Using SAS[®] Data Integration Studio to Create Efficient ETL Processes

This course provides critical ETL performance, tuning, and capacity information for SAS[®]9 and SAS Data Integration Studio. The course introduces ETL concepts and covers ETL performance topics in depth and with examples as needed.

Learn how to:

- analyze and debug ETL flows
- gain efficiency quickly
- set up the system environment
- customize advanced performance techniques.

Who Should Attend: SAS Data Integration Studio users who want to learn to improve performance of ETL processes

Level IV: Advanced

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/ditune.html

Using the SAS[®] Data Quality Solution to Cleanse Your Data

This course presents the tools and techniques of using DataFlux[®] dffPower[®] Studio and the SAS Data Quality Solution to cleanse data.

This course requires the SAS Intelligence Platform as well as DataFlux dffPower Studio.

Learn how to:

- use DataFlux dffPower Studio and the SAS Data Quality Solution to cleanse your data
- use data profiling techniques
- conduct cross-table analysis
- create and apply standardization schemes
- use parsing and concatenation techniques
- match and integrate your data.

Who Should Attend: Quality analysts, warehouse consultants, and ETL specialists

Level III: Intermediate

Delivery: Classroom

Duration: 2 days

Learn more:

www.sas.com/offices/asiapacific/india/training/di_prog2.htm

Using the SAS[®] Scalable Performance Data Server

This course provides an overview of SPD Server architecture and data and index storage in the SPD Server. This course also covers installing the SPD Server, using SPD Server SQL Pass-Through, and optimizing SPD Server resources.

Learn how to:

- install the SPD Server under UNIX and Windows
- configure the SPD Server
- administer and maintain the SPD Server
- store and load data in the SPD Server
- create and store indexes in the SPD Server
- use the SQL Pass-Through Facility
- optimize SPD Server performance.

Who Should Attend: SAS programmers, UNIX or Windows administrators, and administrators of the Scalable Performance Data Server under Windows or UNIX

Level IV: Advanced

Delivery: Classroom

Duration: 3 days

Learn more:

www.sas.com/offices/asiapacific/india/training/di_prog4.htm



I design the architectures and methodologies required for ETL processing, schema development and data quality. I use a range of applications including SAS Integration Studio, the SAS Data Quality Solution, and SAS Information Map Studio.

▶▶ support.sas.com/paths/dia

Data Integration Architecture and Design

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NEW

Data Modeling for Data Integration

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NEW

Italicized courses are global offerings and can be presented locally if demand warrants.

Self-Paced e-Learning Courses

An Introduction to Data Warehousing

Data Integration Architecture and Design

This course introduces data integration architecture concepts including modeling; understanding the different types of data sources; and designing the process of creating and using data warehouse information.

Learn how to:

- understand the SAS IPI methodology for rapid warehousing
- differentiate between the various types of data modeling
- work with various data sources and include data quality
- work with and exchange metadata between applications
- design ETL processes and establish security
- create and use data warehouse information.

Who should attend: Data integration architects, data integration developers, and project managers

Level III: Intermediate

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/diad.html

Data Modeling for Data Integration

This course introduces data integration architecture concepts and concentrates on data modeling.

Learn how to:

- understand the different types of logical data modeling
- understand the different types of physical data modeling
- implement a data model.

Who should attend: Data integration architects and project managers

Level III: Intermediate

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/didm.html



Sloths spend most of their time hanging upside down.

They can't figure out how to stay on top of things.
But you can. With training from SAS Education.

www.sas.com/sloths



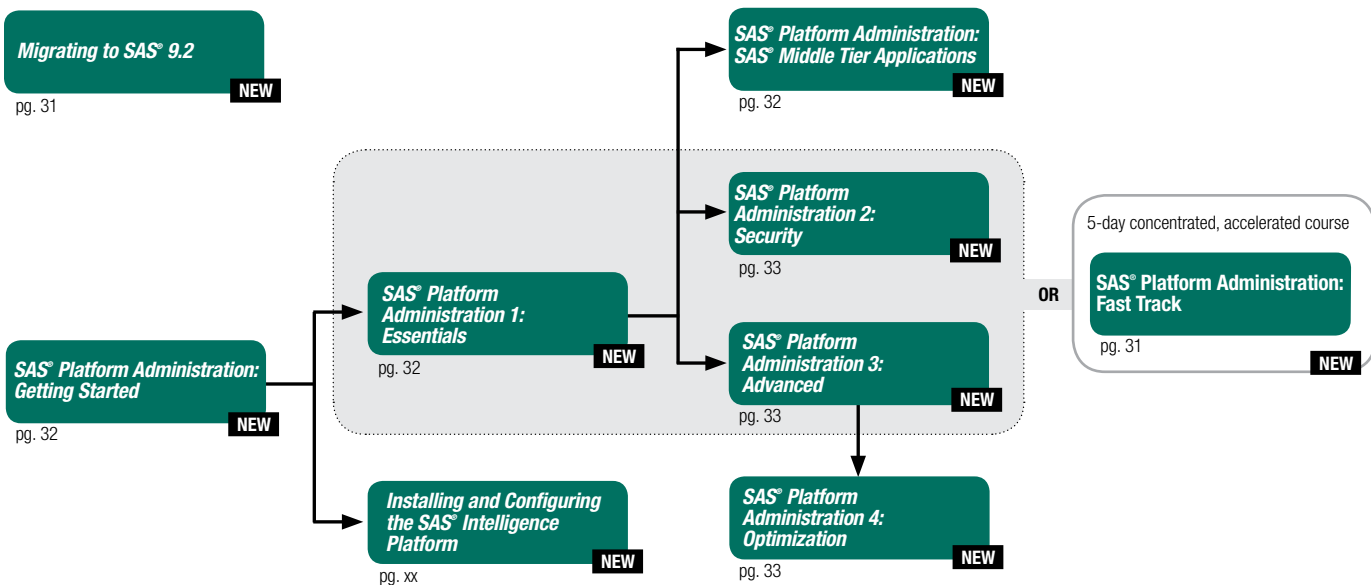
**THE
POWER
TO KNOW[®]**



I'm responsible for installing and maintaining the SAS infrastructure. I need to understand how to install, configure, and administer the SAS Enterprise Intelligence Platform.

▶▶ www.sas.com/offices/asiapacific/india/training/pladmin.html

SAS 9.2



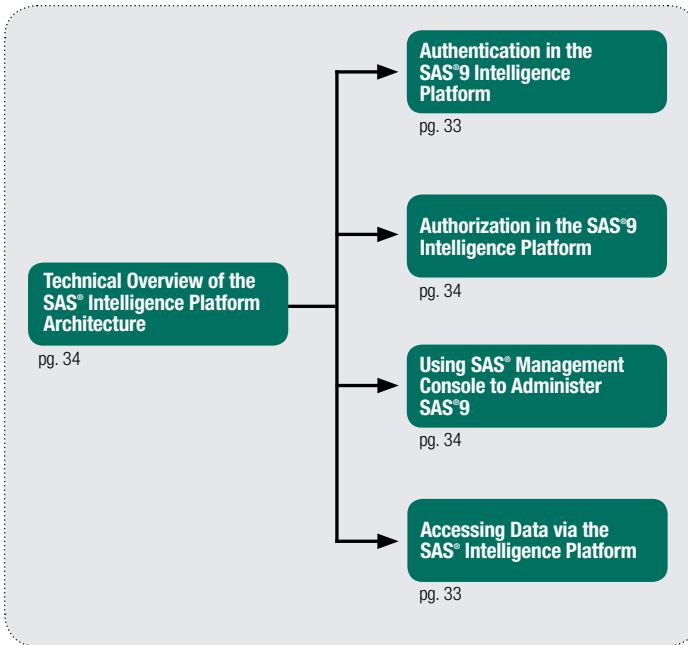
Italicized courses are global offerings and can be presented locally if demand warrants.

Advanced and Specialty Courses

- What's New in SAS® 9.2 Platform Administration **NEW**
- SAS® Enterprise Guide®: Administration **NEW**
- SAS® Enterprise Miner™: Administration **NEW**
- SAS® Data Integration Studio: Administration **NEW**
- SAS® OLAP Environment Administration **NEW**

SAS 9.1.3

Overview of SAS® Business Intelligence and Data Integration Applications
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Italicized courses are global offerings and can be presented locally if demand warrants.

Advanced and Specialty Courses
SAS® 9.1.3 Advanced Metadata Security Workshop

Self-Paced e-Learning Courses
SAS®9 Intelligence Platform Administration

SAS 9.2 COURSES

Installing and Configuring the SAS® Intelligence Platform

This course provides training on the installation and configuration of the SAS Intelligence Platform.

Learn how to:

- plan a SAS Intelligence Platform installation
- perform the pre-installation tasks
- install, configure, and validate the SAS Metadata Server, application servers, client applications, and SAS middle tier.

Who should attend: Platform administrators
Level III: Intermediate
Delivery: Classroom
Duration: 3 days
Learn more:
support.sas.com/courses/spaic.html

Migrating to SAS® 9.2

This course provides training on how to migrate the SAS Intelligence Platform from SAS 9.1.3 to SAS 9.2.

Learn how to:

- review the migration process, requirements, and best practices
- plan for the migration and create a migration package
- migrate the deployment
- validate the migration process.

Who should attend: Platform administrators
Level IV: Advanced
Delivery: Classroom
Duration: 2 days
Learn more:
support.sas.com/courses/spam.html

SAS® Platform Administration: Fast Track

This intensive training course provides accelerated learning for those students who will administer the SAS Intelligence Platform. This course is for individuals who are comfortable with learning large amounts of information in a short period of time. The SAS® *Platform Administration 1: Essentials*; SAS® *Platform Administration 2: Security*; and SAS® *Platform Administration 3: Advanced* courses are available to provide the same type of information in a more detailed approach over a longer period of time.

Learn how to:

- administer the SAS environment
- identify and report on the state of the SAS environment
- manage SAS servers and other metadata content, including the accessibility of data
- move and promote metadata
- recognize and establish various security techniques
- secure data and other shared content
- troubleshoot metadata security.

Who should attend: Platform administrators
Level III: Intermediate
Delivery: Classroom

Duration: 5 days

Learn more:

support.sas.com/courses/spaft.html

SAS® Platform Administration: Getting Started

This course provides an overview of the SAS Intelligence Platform from a platform administrator's perspective.

Learn how to:

- identify the tiers of the SAS Intelligence Platform
- understand metadata and how it can be modified by the various client tier applications
- understand the specific job functions of a SAS platform administrator.

Who should attend: Platform administrators

Level I: Getting Started

Delivery: Classroom

Duration: 1 days

Learn more:

support.sas.com/courses/spags.html

SAS® Platform Administration: SAS® Middle Tier Applications

This course provides training on how to administer the middle tier applications of the SAS Intelligence Platform including SAS Web Report Studio, the SAS Information Delivery Portal, and SAS BI Dashboard.

Learn how to:

- explore the SAS middle tier applications and the role of the SAS Web Administrator
- verify deployment of the SAS Web applications
- administer SAS Web Report Studio, the SAS Information Delivery Portal, and SAS BI Dashboard
- maintain the SAS middle tier.

Who should attend: Platform administrators

Level III: Intermediate

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/spamta.html

SAS® Platform Administration 1: Essentials

This course provides students with the essential knowledge to perform the job functions of a SAS platform administrator.

Learn how to:

- back up the SAS environment and move metadata
- administer users
- administer access to data
- understand how client applications interact with metadata
- administer SAS content
- review the basics for monitoring, logging, and troubleshooting SAS servers.

Who should attend: Platform administrators

Level II: Fundamentals

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/spa1.html

SAS® Platform Administration 2: Security

This course teaches students how to understand security concepts and secure the SAS Intelligence Platform and the content that it contains.

Learn how to:

- identify and administer the different types of users
- recognize and establish various security techniques
- secure data and other shared content
- troubleshoot metadata security.

Who should attend: Platform administrators

Level III: Intermediate

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/spa2.html

SAS® Platform Administration 3: Advanced

This course expands on the knowledge learned in the *SAS® Platform Administration 1: Essentials* course and provides additional information on maintaining and troubleshooting the SAS environment.

Learn how to:

- identify the different types of SAS administrators
- recognize and report on the state of the SAS environment
- manage SAS servers and other metadata content
- maintain the accessibility of data
- move and promote metadata
- upgrade and add new SAS products and utilities to the SAS environment.

Who should attend: Platform administrators

Level III: Intermediate

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/spa3.html

SAS® Platform Administration 4: Optimization

This course expands on the knowledge learned in the *SAS® Platform Administration 3: Advanced* course or the *SAS® Platform Administration: Fast Track* course and provides additional information on optimizing the SAS environment.

Learn how to:

- scale the SAS environment by adding additional server contexts and setting up load balancing
- optimize server configuration settings by tuning memory settings and setting up a pooled workspace server
- interact with the SAS environment using various scripting techniques.

Who should attend: Platform administrators

Level IV: Advanced

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/spa4.html

SAS 9.1.3 COURSES

Accessing Data via the SAS® Intelligence Platform

This course is for those who will be involved in administering users, servers, and applications in the SAS Intelligence architecture. The course focuses on connecting to SAS and RDMBS data on servers.

Learn how to:

- describe how SAS servers access data
- connect to SAS data
- connect to RDBMS data
- assign data with the metadata LIBNAME engine
- describe how and when to pre-assign libraries.

Who should attend: Platform administrators

Level IV: Advanced

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/pada.html

Authentication in the SAS®9 Intelligence Platform

This course is for those who will be involved in administering users, servers, and applications in the SAS Intelligence architecture. The course focuses on the key areas of initial authentication, identification, and additional authentication.

Learn how to:

- describe the process of authentication
- examine the process of identification
- decide when to create individual metadata identities and groups
- determine when to create new authentication domains and logins.

Who should attend: Platform administrators

Level IV: Advanced

Delivery: Classroom

Duration: 1 day

Learn more:

support.sas.com/courses/pasac.html

Authorization in the SAS®9 Intelligence Platform

This course is for those who will be involved in administering users, servers, and applications in the SAS Intelligence architecture. The course focuses on the key areas of authorization, metadata permissions, and securing metadata objects.

Learn how to:

- describe the process of authorization
- secure Business Intelligence objects
- use folders to secure metadata
- manage access control templates to secure metadata.

Who should attend: SAS platform administrators dealing with security in the SAS metadata

Level IV: Advanced

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/pasaz.html

SAS® Platform Administrator Fast Track

This course is for those who will be involved in administering the servers, users, data, and applications in the SAS Intelligence architecture. This course is appropriate for sites that are planning for an upcoming SAS Intelligence Platform implementation as well as sites that already have the SAS Intelligence Platform installed. This course is for individuals who are comfortable with learning large amounts of information in a short period of time. The *Technical Overview of the SAS® Intelligence Platform Architecture; Authentication in the SAS®9 Intelligence Platform; Authorization in the SAS®9 Intelligence Platform; Using SAS Management Console to Administer SAS®9; and Accessing Data via the SAS® Intelligence Platform* courses are available to provide the same type of information in a more detailed approach over a longer period of time.

Learn how to:

- understand the function of the tiers in the SAS Intelligence Platform
- use SAS Management Console to administer metadata
- make data available via the SAS Intelligence Platform
- determine when to create individual metadata identities and groups
- determine when to create new authentication domains and logins
- understand the process of authorization
- secure Business Intelligence objects.

Who should attend: SAS platform administrators dealing with administering servers, users, groups, data, and security

Level IV: Advanced

Delivery: Classroom

Duration: 5 days

Learn more:

support.sas.com/courses/pafast.html

Technical Overview of the SAS® Intelligence Platform Architecture

This course is designed for those who will be involved in administering the servers and applications in the SAS Intelligence architecture.

Learn how to:

- explore metadata for the four tiers of the environment using SAS Management Console.

Who should attend: SAS platform administrators needing a technical architecture overview

Level IV: Advanced

Delivery: Classroom

Duration: 1 day

Learn more:

support.sas.com/courses/paovr.html

Using SAS® Management Console to Administer SAS®9

This course is designed for those who need to administer their SAS®9 environment using SAS Management Console.

Learn how to:

- set up SAS Management Console to interact with your metadata server(s)
- use plug-ins to administer metadata and servers: Metadata Manager, Server Manager, User Manager, Data Library Manager, BI Manager, and Authorization Manager.

Who should attend: SAS platform administrators dealing with SAS metadata

Level IV: Advanced

Delivery: Classroom

Duration: 1.5 days

Learn more:

support.sas.com/courses/pamc.html

I'm responsible for managing the strategy, objectives and tasks for a SAS project. I have a high-level understanding of SAS technologies and a detailed knowledge of project management methodologies. Also, I am involved in implementing our Business Intelligence Competency Center (BICC).

►► support.sas.com/paths/pm



BI Project Management: Calculating Costs and Risks

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NEW

Maximizing Technology and Resource Investment with a BI Competency Center

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NEW

Self-Paced e-Learning Courses

An Introduction to Data Warehousing

Italicized courses are global offerings and can be presented locally if demand warrants.

BI Project Management: Calculating Costs and Risks

This course teaches you how to write a business case for your BI project. This course covers how to calculate the return on investment (ROI) by quantifying costs, benefits, and risks.

Learn how to:

- calculate the costs, benefits, and risks of a BI project
- estimate overall return on investment
- write a business case and make effective use of it.

Who should attend: Project managers and BI architects

Level II: Fundamentals

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/bipmroi.html

Maximizing Technology and Resource Investment with a BI Competency Center

This course teaches you how to establish and evolve a Business Intelligence Competency Center (BICC) in your organization. This course provides an overview, guidelines for assessing your BI environment, and a road-map to establish a BICC specific for your organization.

Learn how to:

- identify the role and benefits of a BICC
- determine required resources, skills, and funding model
- apply a BI maturity model to benchmark your organization's information management practices
- understand the role of a BICC in supporting your information management practices and BI strategy
- develop a road map to establish and evolve a successful BICC
- understand and apply best practices and expert opinion.

Who should attend: Those who are responsible for managing the technical or the business aspects of the BI and data warehouse environment, such as BI architects and BI platform administrators. Those who are responsible for ensuring alignment of BI efforts with organizational objectives such as BI and/or analytics directors. Those who have been asked to deploy BI in their environment or improve the business value from the existing BI environment

Level II: Fundamentals

Delivery: Classroom

Duration: 1 day

Learn more:

support.sas.com/courses/biccmax.html

I cleanse and prepare data for analysis as well as conduct and interpret simple to complex statistical data analyses.

►► www.sas.com/offices/asiapacific/india/training/stat.html

SAS® Programming 1:
Essentials

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Statistics 1: Introduction
to ANOVA, Regression, and
Logistic Regression

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Predictive Modeling Using
Logistic Regression

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Statistics 2: ANOVA and
Regression

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Categorical Data Analysis
Using Logistic Regression

pg. 36

Multivariate Statistical
Methods: Practical
Research Applications

pg. 37

Longitudinal Data
Analysis with Discrete and
Continuous Responses

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Mixed Models Analyses
Using SAS®

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Italicized courses are global offerings and can be presented locally if demand warrants.



Preparation for SAS® Certification Exam

Advanced and Specialty Courses

Applied Clustering Techniques

Design and Analysis of Probability Surveys

Making Business Decisions Using
Linear Models in SAS®:
A Harvard Case Study

NEW

Multilevel Modeling of Hierarchical and
Longitudinal Data Using SAS®

Survival Analysis Using the Proportional
Hazards Model

Self-Paced e-Learning Courses

Querying, Reporting, and Analyzing Data
Using SAS® Enterprise Guide®

Performing Statistical Analyses Using
SAS® Enterprise Guide®: Examples

Categorical Data Analysis Using Logistic Regression

This course focuses on analyzing categorical response data in scientific fields. The SAS procedures addressed are PROC FREQ, PROC LOGISTIC, and PROC GENMOD. This course is not designed for predictive modelers in business fields.

Learn how to:

- use the LOGISTIC procedure for binary, ordinal, and nominal logistic regression
- utilize the FREQ procedure for preliminary analyses
- create logit plots and ROC curves
- perform exact and conditional logistic regression with PROC LOGISTIC
- analyze repeated and clustered data using generalized estimating equations in the GENMOD procedure.

Who should attend: Biostatisticians, epidemiologists, and social and physical scientists

Level III: Intermediate

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/cdal92.html

Longitudinal Data Analysis with Discrete and Continuous Responses

This course is for scientists and analysts who want to analyze observational data collected over time. It is not for SAS users who have collected data in a complicated experimental design; they should take the *Mixed Models Analyses Using SAS®* course instead.

Learn how to:

- create individual and group profile plots and sample variograms
- fit a general linear mixed model and a random coefficient model using PROC MIXED
- plot information criteria for models with selected covariance structures
- fit a binary and ordinal GEE model in PROC GENMOD
- compute GEE deletion diagnostic statistics using PROC GENMOD
- fit a generalized linear mixed model in PROC GLIMMIX.

Who should attend: Epidemiologists, business analysts, and social and physical scientists

Level IV: Advanced

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/long92.html

Mixed Models Analyses Using SAS®

This course teaches you how to analyze linear and generalized mixed models using the MIXED and GLIMMIX procedures, respectively.

Learn how to:

- analyze data (including binary data) with random effects
- fit random coefficient models and hierarchical linear models
- analyze repeated measures data
- perform mixed model diagnostics
- obtain and interpret the best linear unbiased predictions
- deal with convergence issues.

Who should attend: Statisticians, experienced data analysts, and researchers with statistical knowledge

Level IV: Advanced

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/aglm92.html

Multivariate Statistical Methods: Practical Research Applications

This course teaches how to apply a variety of multivariate statistical methods to research data.

Learn how to:

- perform multivariate analysis of variance (MANOVA) and multivariate regression analysis
- carry out canonical correlation and discriminant function analyses
- execute principal components analysis
- perform exploratory and confirmatory factor analysis
- use structural equation modeling.

Who should attend: Statisticians, researchers, and data analysts with a statistical background

Level IV: Advanced

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/amul92.html

Statistics 1: Introduction to ANOVA, Regression, and Logistic Regression

This course teaches SAS users how to generate analyses using either continuous or categorical response (dependent) variables.

Learn how to:

- generate descriptive statistics and explore data with graphs
- perform analysis of variance and apply multiple comparison techniques
- carry out linear regression and assess the assumptions
- use diagnostic statistics and graphs to identify potential outliers in multiple regression
- detect associations among categorical variables
- fit simple and multiple binomial logistic regression models.

Who should attend: Statisticians, researchers, and business analysts who use SAS programming to analyze data

Level II: Fundamentals

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/st192.html

Statistics 2: ANOVA and Regression

This course teaches you how to analyze continuous response data and discrete count data. Linear regression, Poisson regression, gamma regression, analysis of variance, and analysis of covariance are presented in the course. An introduction to linear mixed models is also included.

Learn how to:

- use the new SG graphing procedures for exploratory data analysis
- fit multiple polynomial regression models using the REG procedure
- perform model diagnostics and remedial measures
- fit a Poisson and gamma regression model using the GENMOD procedure
- perform analysis of variance and fit ANCOVA models using the GLM procedure
- fit regression models with dummy variables
- fit models with random effects using the MIXED procedure.

Who should attend: Statisticians, biostatisticians, business analysts, data analysts, and researchers with some statistical training

Level III: Intermediate

Delivery: Classroom

Duration: 3 days

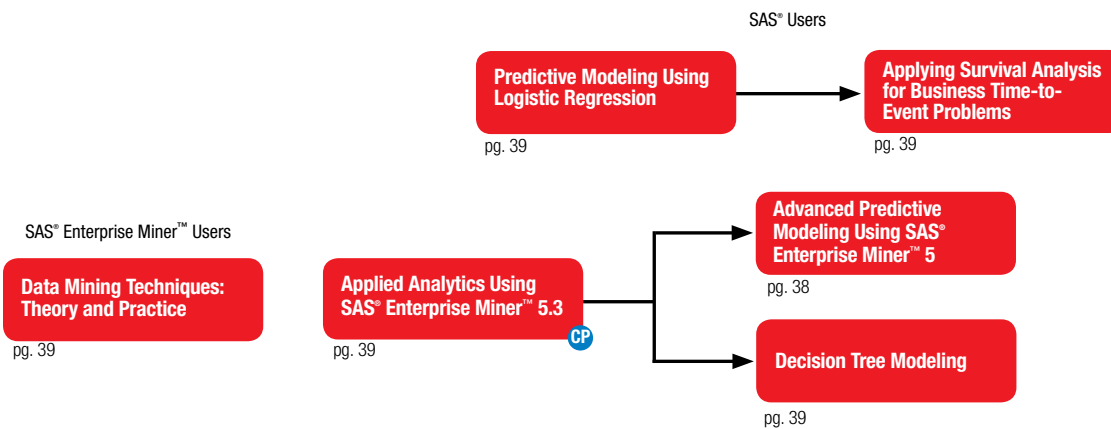
Learn more:

support.sas.com/courses/st292.html



I'm responsible for extracting information from large databases to construct data segments and predictive models. I use SAS Enterprise Miner, SAS Credit Scoring, SAS Text Miner or write SAS code.

▶▶ www.sas.com/offices/asiapacific/india/training/dminer.html



Italicized courses are global offerings and can be presented locally if demand warrants.

CP Preparation for SAS® Certification Exam

Advanced and Specialty Courses

Credit Scorecard Development and Implementation

Customer Segmentation Using SAS® Enterprise Miner™

Data Preparation for Data Mining

Exploratory Analysis for Large and Complex Problems

Exploratory Data Mining with Application to Life and Social Sciences

Managing SAS® Analytical Models Using SAS® Model Manager **NEW**

Mining Textual Data Using SAS® Text Miner for SAS®9

Survival Data Mining: Predictive Hazard Modeling for Customer History Data

Self-Paced e-Learning Courses

Applied Analytics Using SAS® Enterprise Miner™ 5

Recommended Certifications

SAS® Certified Predictive Modeler Using SAS® Enterprise Miner™ 5.3 Credential

Please find more information about Certification on page 3.

Advanced Predictive Modeling Using SAS® Enterprise Miner™ 5

This course teaches you how to optimize the performance of predictive models building on the techniques covered in the *Applied Analytics Using SAS® Enterprise Miner™ 5.3* course.

Learn how to:

- use advanced techniques for input selection and model assessment
- construct and evaluate two-stage and multi-stage models using SAS Enterprise Miner
- evaluate variability in model predictive performance.

Who should attend: Predictive modelers and data analysts

Level IV: Advanced

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/pmad53.html

Applied Analytics Using SAS® Enterprise Miner™ 5.3

This course covers the skills required to assemble analysis flow diagrams using the rich toolset of SAS Enterprise Miner for both pattern discovery (segmentation, association, and sequence analyses) and predictive modeling (decision tree, regression, and neural network models).

Learn how to:

- define a SAS Enterprise Miner 5 project and explore data graphically
- modify data for better analysis results
- build and understand predictive models like decision trees and regression models
- compare and explain complex models
- generate and use score code
- apply association and sequence discovery to transaction data
- use other modeling tools like rule induction, gradient boosting, and support vector machines.

Who should attend: Data analysts, qualitative experts, and others who want an introduction to SAS Enterprise Miner

Level III: Intermediate

Delivery: Classroom

Duration: 3 days

Certification: This course is suggested preparation for the Predictive Modeling Using SAS® Enterprise Miner™ 5.3 Exam

Learn more:

support.sas.com/courses/aaem53.html

Applying Survival Analysis for Business Time-to-Event Problems

This course introduces survival analysis in the context of business data mining. The focus is on understanding customer behaviors that have a time-to-event component.

Learn how to:

- identify appropriate opportunities for applying survival analysis techniques
- estimate how long customers remain active
- measure competing risks in survival analysis modeling.

Who should attend: Business analysts and managers, programmers, and statisticians

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/bisa.html

Data Mining Techniques: Theory and Practice

Explore the inner workings of data mining techniques and how to make them work for you. This course covers all the steps of a data mining project, beginning with problem definition and data selection, and continuing through data exploration, data transformation, sampling, portioning, modeling, and assessment.

Learn how to:

- use a data mining methodology
- build and use decision trees and neural networks for modeling and scoring
- use survival analysis and create survival curves.

Who should attend: Business analysts, their managers, and statisticians

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/bdmt53.html

Decision Tree Modeling

This course covers tree-structured predictive models and the methodology for growing, pruning, and assessing decision trees. In addition, this course discusses many of the auxiliary uses of trees such as exploratory data analysis, dimension reduction, and missing value imputation.

Learn how to:

- build tree-structured models including classification trees and regression trees
- use the methodology for growing, pruning, and assessing decision trees
- use decision trees for exploratory data analysis, dimension reduction, and missing value imputation.

Who should attend: Predictive modelers and data analysts who want to build decision trees using SAS Enterprise Miner

Level IV: Advanced

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/dmdt53.html

Predictive Modeling Using Logistic Regression

This course teaches predictive modeling using SAS/STAT® software with emphasis on the LOGISTIC procedure. This course also covers selecting variables, assessing models, treating missing values, and using efficiency techniques for massive data sets.

Learn how to:

- use logistic regression to model an individual's behavior as a function of known inputs
- handle missing data values
- tackle multicollinearity in your predictors
- assess model performance and compare models.

Who should attend: Modelers, analysts, and statisticians who need to build predictive models, particularly models from the banking, financial services, direct marketing, insurance, and telecommunications industries

Level IV: Advanced

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/pmlr92.html



I'm responsible for developing forecasting models to empower the organization to make informed decisions. I write SAS programs, use the Time Series Forecasting System or SAS Forecast Studio.

▶▶ www.sas.com/offices/asiapacific/india/training/for.html

Forecasting One-Time Series with Possible Regressors

**Business Forecasting
Using SAS®: A Point-and-
Click Approach**

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OR

**Forecasting Using SAS®
Software: A Programming
Approach**

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NEW

Large-Scale Forecasting

**Forecasting Using SAS®
Forecast Server Software**

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**Using SAS® High-
Performance Forecasting
Software**

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Italicized courses are global offerings and can be presented locally if demand warrants.

Self-Paced e-Learning Courses

**Viewing and Generating Basic Forecasts
Using SAS® Forecast Studio**

Business Forecasting Using SAS®: A Point-and-Click Approach

This course teaches business analysts how to develop forecasting projects using the point-and-click interface in the Time Series Forecasting System in SAS/ETS software.

Learn how to:

- identify trend and seasonality in time series data
- propose simple trend, advanced trend, and/or seasonal models and fit these models to data
- identify input variables to include in a time series regression model
- identify the relationship between the target variable and input variables
- propose and fit dynamic time series regression models.

Who should attend: Forecasters and business analysts

Level II: Fundamentals

Delivery: Classroom

Duration: 3 days

Learn more:

www.sas.com/offices/asiapacific/india/training/anl_prog3.htm

Forecasting Using SAS® Forecast Server Software

This course prepares you to generate large volumes of forecasts automatically using the SAS Forecast Studio interactive interface.

Learn how to:

- automatically fit forecast models to large-scale time series data sets
- identify series that do not have acceptable forecast accuracy
- specify custom models to improve forecast accuracy
- reconcile hierarchical forecasts
- produce reports using stored processes
- generate forecasts for deployment.

Who should attend: Forecasters and business analysts in any industry

Level II: Fundamentals

Delivery: Classroom

Duration: 1 day

Learn more:

support.sas.com/courses/fstu21.html

Forecasting Using SAS® Software: A Programming Approach

This course teaches analysts how to use SAS/ETS software to create forecasting models, evaluate their accuracy, and forecast future values.

Learn how to:

- build simple forecast models
- build advanced forecast models for auto-correlated time series and for time series with trend and seasonality
- build forecast models that contain explanatory variables.

Who should attend: Scientists, engineers, and business analysts

Level IV: Advanced

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/fetsp.html

Using SAS® High-Performance Forecasting Software

This course teaches you how to confidently plan your business operations by making accurate forecasts quickly and automatically using the SAS Forecast Server procedures.

Learn how to:

- process time series data
- automate the large-scale forecasting process
- add custom models and selection lists to a model repository
- create event variables to use as inputs to forecast models
- produce, assess, and modify forecasts.

Who should attend: Experienced forecasters and business analysts

Level III: Intermediate

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/hpf.html



Meet Prof. C.G. Venkatesh

Professor CG.Venkatesh has more than 10 years experience in academics and corporate training. His educational pursuits have taken him all around the world including a teaching stint in UK. Venkatesh has been teaching at SAS since January 2006. He specializes in analytics and related courses. He is the first person in India to clear the SAS Predictive Modeling certification exam.

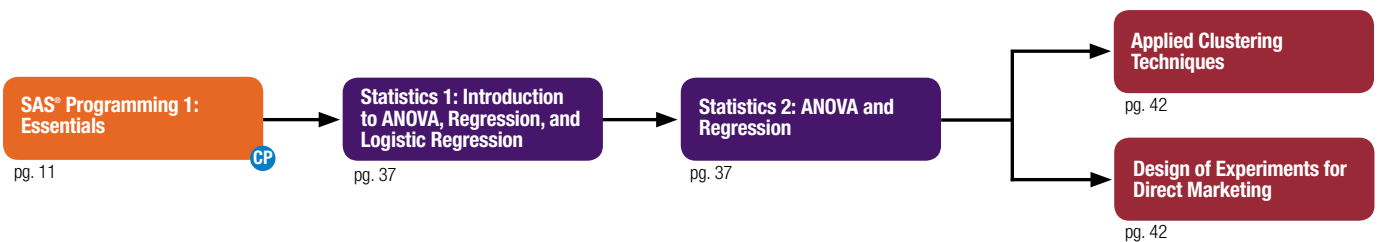
What Venkatesh's students said:

Venkatesh has a talent for making difficult content easier to swallow. He gives solid answers to questions. He is extremely articulate and has clear mastery of the material.



I conduct market research then analyze and interpret the results. I write SAS programs or use SAS Enterprise Guide, SAS Enterprise Miner, SAS Marketing Automation, and SAS Marketing Optimization.

▶▶ www.sas.com/offices/asiapacific/india/training/mr.html



Italicized courses are global offerings and can be presented locally if demand warrants.

CP Preparation for SAS® Certification Exam

Advanced and Specialty Courses

Categorical Data Analysis Using Logistic Regression

Multivariate Statistical Methods: Practical Research Applications

Predictive Modeling Using Logistic Regression

Self-Paced e-Learning Courses

Introduction to SAS® Programming

Applied Clustering Techniques

The course examines the theoretical and practical implications of a wide array of cluster pre-processing and clustering techniques available in SAS. The topics reviewed include cluster transformation, variable clustering, k-means clustering, hierarchical clustering, and non-parametric clustering.

Learn how to:

- explore and prepare data for a cluster analysis
- distinguish among different clustering techniques
- evaluate the results of cluster analysis
- determine the appropriate number of clusters to retain
- describe (profile) derived clustered
- score new observations against existing clusters.

Who should attend: Intermediate or senior level statisticians, data analysts, and data miners

Level IV: Advanced

Delivery: Classroom

Duration: 2 days

Learn more:
support.sas.com/courses/clus92.html

Design of Experiments for Direct Marketing

This course teaches you how to design marketing experiments with more than one factor and how to maximize the information obtained from a marketing campaign.

Learn how to:

- determine the appropriate sample size for your tests
- build efficient experimental designs to generate maximum information for minimum cost
- identify challenges associated with analyzing experimental designs
- test as many factors as possible in a given campaign
- apply experimental design practices to direct marketing.

Who should attend: Business analysts and market researchers

Level IV: Advanced

Delivery: Classroom

Duration: 3 days

Learn more:
support.sas.com/courses/doef92.html

I help decision makers solve business, manufacturing, transportation, and supply chain issues. I use linear, integer, mixed-integer and non-linear programming as well as quality control techniques.

▶▶ www.sas.com/offices/asiapacific/india/training/or.html



Optimization and Management Science

Building and Solving Optimization Models with SAS/OR®

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Quality Improvement

Statistical Process Control Using SAS/QC® Software

pg. 13

JMP® Software Users

JMP® Software: Classic Design of Experiments

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Italicized courses are global offerings and can be presented locally if demand warrants.

Building and Solving Optimization Models with SAS/OR®

This course focuses on formulating and solving mathematical optimization using the OPTMODEL procedure, from inputting data to interpreting output and generating reports. The course covers linear, integer, mixed-integer, and nonlinear programming problems, with an emphasis on model formulation and construction.

Learn how to:

- formulate and solve linear programming problems using the OPTMODEL procedure
- solve integer and mixed-integer programming problems using PROC OPTMODEL
- solve nonlinear programming problems using PROC OPTMODEL.

Who should attend: Anyone who wants to formulate and solve linear, integer, mixed-integer, or nonlinear problems using SAS/OR software

Level III: Intermediate

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/orop92.html

Statistical Process Control Using SAS/QC® Software

This course is designed for professionals who use quality control or SPC methods to monitor, evaluate, and improve the quality of their processes. It is an ideal statistical training module to complement or supplement corporate quality training programs and Six Sigma programs.

Learn how to:

- perform distribution and Pareto analyses
- create run charts and determine rational subgrouping strategies
- generate Shewhart control charts, including specialized and advanced charts
- perform analysis of means (ANOM) and create ANOM charts
- conduct graphical and statistical capability analysis.

Who should attend: Engineers, chemists, health care workers, statisticians, and others using quality control or SPC methods

Level III: Intermediate

Delivery: Classroom

Duration: 2 days

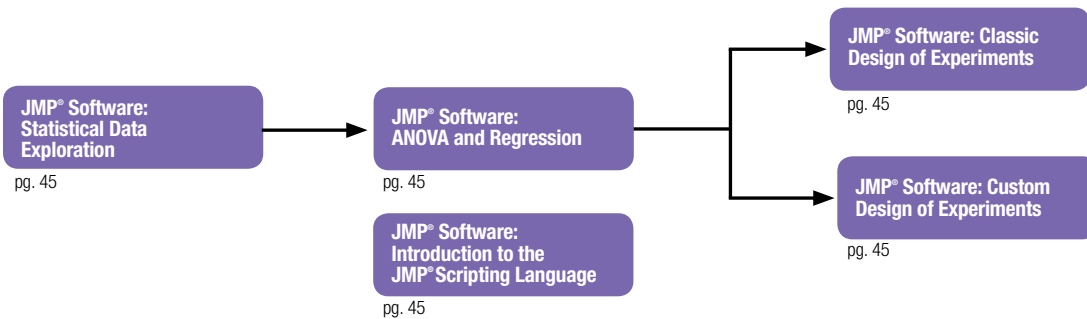
Learn more:

support.sas.com/courses/spcqc9.html



I use JMP software to dynamically visualize statistical data analyses.

▶▶ www.sas.com/offices/asiapacific/india/training/jmp.html



Italicized courses are global offerings and can be presented locally if demand warrants.

Advanced and Specialty Courses

JMP® Software: Analysis of Dose-Response Curves with JMP®

JMP® Software: Introduction to Categorical Data Analysis

JMP® Software: Measurement Systems Analysis and Variation Reduction

JMP® Software: Process Control Design Using SPC

JMP® Software: Stability Analysis **NEW**

JMP® Software: Statistical Quality Control

Mixture Design of Experiments Using JMP®

JMP® Software: ANOVA and Regression

This course teaches how to analyze data with a single continuous response variable using analysis of variance and regression methods. You learn how to perform elementary exploratory data analysis (EDA) and discover natural patterns in data. Important statistical concepts such as confidence intervals are also introduced.

Learn how to:

- compare two means using a t-test
- generate and interpret an analysis of variance to compare more than two means
- analyze relationships between continuous variables using simple and multiple linear regression models
- perform an analysis of covariance to incorporate continuous and categorical predictors
- evaluate assumptions in statistical hypothesis testing.

Who should attend: Analysts and researchers with some statistical knowledge

Level III: Intermediate

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/janr7.html

JMP® Software: Classic Design of Experiments

This course teaches you how to design and analyze experiments. Designed experiments can help optimize the process response or identify the vital few factors that drive your product or process. The course emphasizes the principles of experimental design and includes screening designs and response surface designs.

Learn how to:

- explain the fundamental principles of designed experiments
- generate and analyze full factorial, fractional factorial, split-plot, and screening designs, including designs with blocking factors
- create and analyze classic response surface designs
- use the custom design tool.

Who should attend: Anyone who would like to understand and improve process design, such as engineers, scientists, and Six Sigma practitioners

Level IV: Advanced

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/jdrs7.html

JMP® Software: Custom Design of Experiments

This course is for engineers and scientists with some statistical training who want a fresh perspective about designing experiments through state-of-the-art features in JMP.

Learn how to:

- use custom design for any experiment
- choose appropriate criterion for optimal design
- effectively and efficiently test factor effects or predict responses
- augment existing experiments to address new questions
- design and analyze experiments with hard-to-change factors
- eliminate noise from nuisance factors
- find best factor settings to achieve desired response levels.

Who should attend: Directors, managers, engineers, scientists, technicians, and analysts working in discovery, research, development, and quality assurance or control, as well as Black Belts working on Six Sigma projects

Level IV: Advanced

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/jmdoe7.html

JMP® Software: Introduction to the JMP® Scripting Language

This course demonstrates how to extend JMP software's functionality using the JMP Scripting Language (JSL) to automate routine procedures, extend or create new procedures, and customize reports.

Learn how to:

- use the basic elements in JSL
- use messages, functions, and expressions to create new data tables and columns, control analyses, and capture or modify reports
- create and use dialogs to adapt script behavior
- save JMP scripts as custom menu or toolbar items to automate routine analyses and reporting.

Who should attend: Anyone familiar with JMP who wants to learn the JMP Scripting Language (JSL)

Level III: Intermediate

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/jscr7.html

JMP® Software: Statistical Data Exploration

This course is designed as the first step for those who want to use JMP to manage, analyze, and explore data.

Learn how to:

- navigate the JMP interface
- manage data effectively in JMP
- explore data by using JMP's extensive graphical capabilities
- create and manage reports in JMP

Who should attend: Anyone who wants to increase their knowledge and use of JMP to explore data

Level II: Fundamentals

Delivery: Classroom

Duration: 1 day

Learn more:

support.sas.com/courses/jdex7.html



Implement Six Sigma methodology to create data-driven measurement strategies to improve processes and reduce variation.

►► www.sas.com/offices/asiapacific/india/training/sixsigma.html

DMAIC Six Sigma

Executive and Management Training

**Executive Overview
for Six Sigma**

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**Champion Training
for Six Sigma**

pg. 47

**JMP® for the Six Sigma
Professional**

pg. 47

**Black Belt–Manufacturing
Process Excellence with
Lean Six Sigma**

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**Black Belt–Transactional
Process Excellence with
Lean Six Sigma**

pg. 46

Black Belt Training

Green Belt Training

**Green Belt–Manufacturing
Process Excellence with
Lean Six Sigma**

pg. 47

**Green Belt–Transactional
Process Excellence with
Lean Six Sigma**

pg. 47

Italicized courses are global offerings and can be presented locally if demand warrants.

Advanced and Specialty Courses

**Business Statistics and Data Analysis
for Performance Excellence** **NEW**

**Design for Six Sigma: New Product
Development** **NEW**

**Engineering Statistics and Data Analysis
for Performance Excellence**

**Green Belt – Healthcare Process
Excellence with Six Sigma** **NEW**

Robust Optimization and Tolerance Design

**Yellow/White Belt – Basic DMAIC Problem
Solving for Lean Six Sigma**

Black Belt – Manufacturing Process Excellence with Lean Six Sigma

This course teaches the DMAIC methodology and how to apply it to manufacturing projects.

Learn how to:

- use the DMAIC methodology to solve product production problems
- define a problem and objective statement
- determine Critical-to-Quality factors
- generate and execute a data collection plan
- use the root cause analysis tools
- generate improvement strategies
- implement a control system for a newly improved process.

Who should attend: Black Belts or Green Belts working directly on Six Sigma projects

Delivery: On-site only

Duration: 16 days

Learn more:

support.sas.com/courses/sxprod7.html

Black Belt – Transactional Process Excellence with Lean Six Sigma

This course teaches the DMAIC methodology and how to apply it to transactional projects.

Learn how to:

- use the DMAIC methodology to solve operational problems
- define a problem and objective statement
- determine Critical-to-Quality factors

- generate and execute a data collection plan
- use the root cause analysis tools
- generate improvement strategies
- implement a control system for a newly improved process.

Who should attend: Black Belts or Green Belts who are working directly on Six Sigma projects and come from areas such as sales, human resources, finance, or customer service

Delivery: On-site only

Duration: 9 days

Learn more:

support.sas.com/courses/sxtran7.html

Champion Training for Six Sigma

This course includes an overview of Six Sigma concepts, required infrastructure, expected benefits, and enterprise-level metrics. Emphasis is placed on the use of the DMAIC method to achieve breakthroughs in performance, project selection, and project management.

Learn how to:

- identify opportunities for Six Sigma projects
- write a Six Sigma project problem and objective statement
- select belt candidates
- allocate resources for Six Sigma projects.

Who should attend: Directors and managers from manufacturing or transactional backgrounds championing Six Sigma breakthrough projects

Delivery: On-site only

Duration: 2 days

Learn more:

support.sas.com/courses/sxcham7.html

Executive Overview for Six Sigma

This course presents an overview of Six Sigma concepts, the required infrastructure, expected benefits, and enterprise-level metrics. Emphasis is placed on the use of the DMAIC method to achieve breakthroughs in performance.

Learn how to:

- determine if your organization is ready for a Six Sigma implementation
- estimate expected benefits
- use the DMAIC or DFSS process to improve business performance.

Who should attend: Executives from manufacturing or transactional backgrounds working with champions, Black Belts, and Green Belts on Six Sigma breakthrough projects

Delivery: On-site only

Duration: 0.5 days

Learn more:

support.sas.com/courses/sxexec7.html

Green Belt – Manufacturing Process Excellence with Lean Six Sigma

This course teaches the DMAIC methodology and how to apply it to manufacturing breakthrough projects.

Learn how to:

- use the DMAIC methodology to solve product production problems
- define a problem and objective statement
- determine Critical-to-Quality factors
- generate and execute a data collection plan
- use the root cause analysis tools
- generate improvement strategies
- implement a control system for a newly improved process.

Who should attend: Green Belts working directly on Six Sigma and lean projects

Delivery: On-site only

Duration: 9 days

Learn more:

support.sas.com/courses/sxgprod7.html

Green Belt - Transactional Process Excellence with Lean Six Sigma

This course teaches the DMAIC methodology and how to apply it to transactional Six Sigma and lean projects.

Learn how to:

- use the DMAIC methodology to solve operational problems
- define a problem and an objective statement
- determine Critical-to-Quality factors
- generate and execute a data collection plan
- use root cause analysis tools to determine the root cause of a problem
- generate improvement strategies
- implement a control system for a newly improved process.

Who should attend: Green Belts who are working directly on Six Sigma projects and come from areas such as sales, human resources, finance, and customer service

Delivery: On-site only

Duration: 6 days

Learn more:

support.sas.com/courses/sxgtran7.html

JMP® for the Six Sigma Professional

This course covers JMP software's approach to data manipulation and analysis, measurement systems analysis, design of experiments, and statistical process control in direct support of DMAIC breakthrough projects.

Learn how to:

- import and manipulate data
- perform data analysis for a Six Sigma projects
- design and analyze an experiment
- create control charts.

Who should attend: Six Sigma professionals

Delivery: Classroom

Duration: 4 days

Learn more:

support.sas.com/courses/sxjmp7.html

Customer Intelligence

Designing and Executing Marketing Campaigns Using SAS® Customer Intelligence Studio

NEW

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Maximizing Campaign Efficiency with SAS® Marketing Optimization

NEW

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Managing Broadcasts Using SAS® Digital Marketing

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Using SAS® Interaction Management

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Managing the SAS® Marketing Automation Data Environment

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Deploying, Tuning, and Validating SAS® Marketing Automation Applications

NEW

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Deploying, Tuning, and Validating SAS® Marketing Automation Applications

This course teaches participants how to install and configure SAS Marketing Automation in a multi-machine Microsoft Windows environment.

Learn how to:

- explain the SAS Marketing Automation architecture
- install and deploy SAS Marketing Automation
- test and troubleshoot an installation.

Who should attend: Personnel responsible for implementation and support of SAS Marketing Automation

Level IV: Advanced

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/maidtv5.html

Designing and Executing Marketing Campaigns Using SAS® Customer Intelligence Studio

This course provides an overview of SAS Marketing Automation and the SAS Real-Time Decision Manager 5.1 solution, and addresses how to construct both outbound and inbound marketing decisions using SAS Customer Intelligence Studio.

Learn how to:

- identify the types of problems that are solved by SAS Marketing Automation and SAS Real-Time Decision Manager

- navigate all areas of SAS Customer Intelligence Studio
- create and test outbound marketing campaigns and inbound decisions.

Who should attend: Users of SAS Marketing Automation and of SAS Real-Time Decision Manager who want to learn how to use SAS Customer Intelligence Studio for marketing decisions

Level II: Fundamentals

Delivery: On-site only

Duration: 1.5 days

Learn more:

support.sas.com/courses/cistv5.html

Managing Broadcasts Using SAS® Digital Marketing

This course introduces the basic functionality of SAS Digital Marketing Studio and SAS Digital Marketing Web Studio.

Learn how to:

- create personalized e-mail broadcasts
- preview and execute broadcasts
- monitor results using built-in and custom reports.

Who should attend: Users of the SAS Digital Marketing solution who create and execute large-scale multimedia campaigns

Level II: Fundamentals

Delivery: Classroom

Duration: 1 day

Learn more:

support.sas.com/courses/dgmmv5.html

Managing the SAS® Marketing Automation Data Environment

This course provides an understanding of how to build, extend, and maintain the information map required in a SAS Marketing Automation environment.

Learn how to:

- create an information map for use in SAS Marketing Automation
- use the information map to generate metadata tables for SAS Marketing Automation
- create a business context using the Marketing Automation plug-in in SAS Management Console.

Who should attend: Data modelers, IT administrators, and marketing analysts who want to understand how to set up data for SAS Marketing Automation

Level III: Intermediate

Delivery: Classroom

Duration: 1 day

Learn more:

support.sas.com/courses/madata5.html

Maximizing Campaign Efficiency with SAS® Marketing Optimization

This course teaches how to use SAS Marketing Optimization to develop marketing scenarios and interpret the results of the optimization analysis.

Learn how to:

- describe the business problems that SAS Marketing Optimization can help solve
- navigate SAS Marketing Optimization

- input data
- create and optimize a scenario
- maintain a model.

Who should attend: Business analysts and other marketing professionals who will use SAS Marketing Optimization to plan and optimize outbound customer communications in order to maximize economic outcomes

Level II: Fundamentals

Delivery: On-site only

Duration: 1 day

Learn more:

support.sas.com/courses/moce5.html

Using SAS® Interaction Management

This course introduces SAS Interaction Management and shows how it can be used to track customer behavior using state-based modeling. The course also demonstrates how to create event triggers for marketing to customers at precisely the right time.

Learn how to:

- build and edit the customer behavior map
- create segments and event triggers
- use the SAS Interaction Management application
- understand the underlying application data model
- build, configure, and test a SAS Interaction Management application.

Who should attend: Marketing professionals, SAS Interaction Management implementers, marketing modelers, and marketing database specialists

Level I: Getting Started

Delivery: On-site only

Duration: 2 days

Learn more:

support.sas.com/courses/imus.html

Financial Management

SAS® Financial Management: Data Administration

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SAS® Financial Management: Foundations Training

pg. 49

SAS® Financial Management: Foundations Training

This course introduces you to reporting, planning, and budgeting using the three interfaces in SAS Financial Management software.

Learn how to:

- automate core financial processes, including inter-company eliminations, rule-based journal entries, and foreign currency translations
- create financial reports that adhere to corporate and government standards
- analyze financial results using real-time information and on-demand consolidation
- manage the planning cycle including the creation, tracking, and deployment of budgets and forecasts.

Who should attend: Financial analysts and system administrators

Level III: Intermediate

Delivery: Classroom

Duration: 4 days

Learn more:

support.sas.com/courses/fmsd.html

SAS® Financial Management: Data Administration

This course demonstrates how to import and customize the SAS Financial Management transformations and jobs that are used to move data from the organization data store to the Solutions Data Mart.

Learn how to use SAS supplied jobs in SAS Data Integration Studio to:

- load dimension members and hierarchies into the Detail Data Store
- load financial transactions into the Detail Data Store
- move data from the Detail Data Store into the Solutions Data Mart
- add new dimension types, members, and member hierarchies
- export financial data from the Solutions Data Mart.

Who should attend: Data administrators implementing SAS Financial Solutions

Level IV: Advanced

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/fmda.html

Risk Management

Credit Scorecard Development and Implementation

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Credit Risk Modeling for Basel II Using SAS®

pg. 50

SAS® Essentials for Risk Dimensions

pg. 50

SAS® Risk Dimensions®: Configuration and Analysis

pg. 50

Credit Risk Modeling for Basel II Using SAS®

This course teaches how to develop credit risk models in the context of the recent Basel II guidelines. The course provides a sound mix of both theoretical and technical insight, as well as practical implementation details. These are illustrated by several real-life case studies.

Learn how to:

- develop PD, LGD, and EAD models for Basel II
- validate Basel II models
- ensure that your organization is in compliance.

Who should attend: Anyone involved in building scoring systems or responsible for monitoring their behavior and performance

Level: Business Knowledge Series

Delivery: Classroom

Duration: 4 days

Learn more:

support.sas.com/courses/basel.html

Credit Scorecard Development and Implementation

This business-focused course provides the necessary knowledge to plan, develop, implement, and maintain risk scorecards in-house. The course offers a high-level introduction to credit risk management and covers scorecard implementation strategies.

Learn how to:

- create business and project plans for scorecard development
- develop and validate intelligent credit risk scorecards in a step-by-step fashion
- generate scorecard and portfolio performance reports.

Who should attend: Credit risk/scoring managers and data miners; those involved in model vetting/validation and auditing; risk strategy developers; and credit risk executives

Level: Business Knowledge Series

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/csdi.html

SAS® Essentials for Risk Dimensions

This course is for business analysts and future users of SAS Risk Dimensions who need to gain skills and knowledge of Base SAS before learning to use SAS Risk Dimensions.

Learn how to:

- read different types of data sources using SAS code
- create custom reports
- modify data and create new SAS data sets
- create symbolic variables using the SAS macro language.

Who should attend: Financial analysts, SAS Risk Dimensions implementers and consultants, and nonprogrammers who plan to take the *SAS® Risk Dimensions®: Configuration and Analysis* course

Level II: Fundamentals

Delivery: On-site only

Duration: 2 days

Learn more:

support.sas.com/courses/inrd.html

SAS® Risk Dimensions®: Configuration and Analysis

This course provides an introduction to the SAS Risk Dimensions solution using the GUI and batch interfaces.

Learn how to:

- prepare data for analysis and register data
- define SAS Risk Dimensions objects
- configure risk analyses
- define and run projects.

Who should attend: Users of the SAS Risk Dimensions solution who want to conduct market and credit risk analyses of financial data. The course is most appropriate for the Windows environment.

Level III: Intermediate

Delivery: On-site only

Duration: 3 days

Learn more:

support.sas.com/courses/rdim41.html

Activity-Based Management

ABM Modeler

ABC Modeling Using SAS® Activity-Based Management 6.x

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Migrating Oros Modeler

Migrating from Oros 5.x to SAS® Activity-Based Management 6.x

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Business Analyst

SAS® Activity-Based Management 6.x Report Creation for Modelers

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IT Modeling Support

SAS® Programming 1: Essentials

pg. 11

CP

SAS® Programming 2: Data Manipulation Techniques

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ETL for SAS® Activity-Based Management 6.x

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Advanced and Specialty Courses

ABC Modeling for the Public Sector Using Oros 5.x

Advanced Modeling Techniques Using SAS® Activity-Based Management 6.x

Working with Oros Models in Excel

Working with Oros Models in Excel in the Public Sector

ABC Modeling Using SAS® Activity-Based Management 6.x

This course teaches the fundamental concepts and processes of building and analyzing multi-dimensional activity-based cost models through the use of OLAP analysis cubes, custom report templates, and the classic analytic view of an ABC model.

Learn how to:

- describe activity-based costing (ABC) methodology
- use SAS Activity-Based Management 6.4 software for reporting cost data
- construct an ABC model
- import and export model data
- perform dimensional analysis using online analytical processing techniques
- make decisions about the structure of your models.

Who should attend: Managers, analysts, and model builders

Level II: Fundamentals

Delivery: Classroom

Duration: 4 days

Learn more:

support.sas.com/courses/abmo6.html

ETL for SAS® Activity-Based Management 6.x

This course familiarizes you with methods of data extraction, transformation, and loading (ETL) in preparation for SAS Activity-Based Management 6.x.

Learn how to:

- set up the SAS Activity-Based Management system for ETL
- use the data schema for creating staging tables
- import model data from staging tables
- map source tables to data fields and properties in the staging tables
- export model data for analysis and reporting.

Who should attend: Database users who prepare source data for import to or export from SAS Activity-Based Management 6.x models

Level III: Intermediate

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/abetl.html

Migrating from Oros 5.x to SAS® Activity-Based Management 6.x

This course is designed for current Oros modelers who are interested in migrating to SAS Activity-Based Management 6.x.

Learn how to:

- build models using dimensional model structure
- use variable and fixed driver quantities
- use the profitability feature in SAS Activity-Based Management 6.x
- report model data through OLAP dimensional views and standard reports
- import an Oros 5.51 model directly into SAS Activity-Based Management 6.x
- define a plan for dimensional migration of an Oros model.

Who should attend: Oros modelers

Level II: Fundamentals

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/abmom.html

SAS® Activity-Based Management 6.x Report Creation for Modelers

This course teaches how to create focused reports using OLAP analysis cubes, report templates, and the classic analytic view of an ABC model.

Learn how to:

- build reports for both model validation and analysis
- design effective reports reflecting the report consumer's preferred style
- utilize online analytical processing (OLAP) for custom reports
- use SAS Enterprise Guide to pull SAS Activity-Based Management model data to construct custom reports
- prepare your reports for delivery.

Who should attend: Model builders who are responsible for creating and maintaining standard and custom SAS Activity-Based Management reports

Level III: Intermediate

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/abrc.html

Strategic Performance Management

Business Concepts

Creating and Administering Scorecard Projects

pg. 53

Loading Scorecard Metric Values through SAS® Data Integration Studio

pg. 53

Creating and Administering Scorecard Projects

This course is for users who already understand the concepts and process for developing a performance management framework and who want to learn to use SAS Strategic Performance Management to create and administer that framework.

Learn how to:

- create a project, template, and scorecard hierarchy and add data to the scorecard
- create and apply thresholds, ranges, and column selections
- display element associations and dashboards
- create diagrams, create and use aggregate views, and create and view comments
- access a scorecard through Microsoft Office
- apply security.

Who should attend: Modelers, business analysts, and administrators

Level II: Fundamentals

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/spmmit.html

Loading Scorecard Metric Values through SAS® Data Integration Studio

This course is designed for those who are interested in using SAS Data Integration Studio to load data into SAS Strategic Performance Management. This course is intended for administrators but is also suitable for modelers who have taken the *Creating and Administering Scorecard Projects* course.

Learn how to:

- load metric values into SAS Strategic Performance Management through SAS Data Integration Studio
- calculate a scorecard project in batch mode
- create a reusable template for importing data into SAS Strategic Performance Management.

Who should attend: Administrators and modelers

Level III: Intermediate

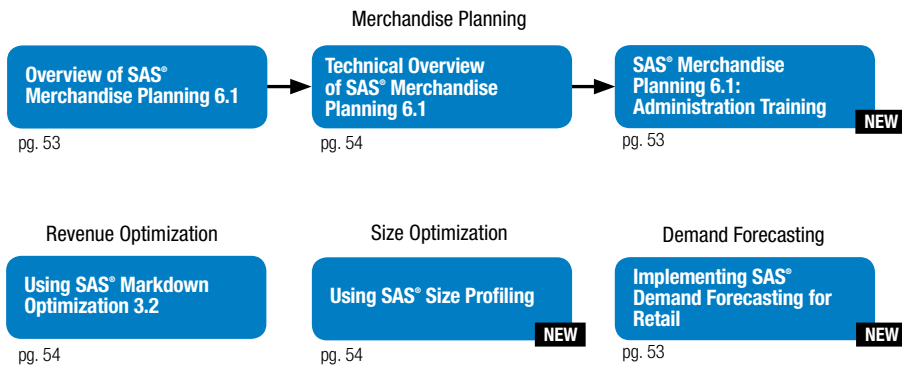
Delivery: Classroom

Duration: 1 day

Learn more:

support.sas.com/courses/spmetl.html

Merchandise Intelligence



Implementing SAS® Demand Forecasting for Retail

This course enables you to acquire the hands-on skills required to install, configure, and use SAS Demand Forecasting for Retail to its fullest capabilities.

Learn how to:

- install SAS Demand Forecasting for Retail
- configure the software according to all business and technical requirements
- create, evaluate, tune, test, and release demand forecasts.

Who should attend: Forecast analysts and other designated super-users. SAS consultants involved in implementing SAS Demand Forecasting for Retail and SAS Merchandise Planning 6.1 will also benefit.

Level III: Intermediate

Delivery: Classroom

Duration: 2.5 days

Learn more:

support.sas.com/courses/smidfr.html

Overview of SAS® Merchandise Planning 6.1

This course teaches you the fundamentals of SAS Merchandise Planning 6.1. The course also introduces the architecture and metadata used in SAS Merchandise Planning 6.1.

Learn how to:

- use the basic features and functions of SAS Merchandise Planning 6.1
- demonstrate the capabilities of the solution in support of customer implementations.

Who should attend: SAS Application, Technical, and Metadata consultants as well as customer associates engaged in the implementation of SAS Merchandise Planning 6.1

Level I: Getting Started

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/smiovr61.html

Advanced and Specialty Courses

New Features in SAS® Merchandise Planning 6.1

SAS® Merchandise Planning 6.1: Pre-SDW Training **NEW**

SAS® Merchandise Planning 6.1: Template Manager Workshop

SAS® Size Profiling: Pre-SDW Training **NEW**

Setting Up SAS® Merchandise Allocation 2.7 **NEW**

Setting Up SAS® Merchandise Planning 6.1 **NEW**

Using Plan Management in SAS® Merchandise Planning 6.1 **NEW**

Using PA Views and Planning Worksheets in SAS® Merchandise Planning 6.1 **NEW**

Using SAS® Merchandise Allocation 2.7 **NEW**

SAS® Merchandise Planning 6.1 Administration Training

This course was specifically designed for SAS planning administrators and includes the following four courses:

- Setting Up SAS Merchandise Planning 6.1
- SAS Merchandise Planning 6.1: Template Manager Workshop
- Using Plan Management in SAS Merchandise Planning 6.1
- Using PA Views and Planning Worksheets in SAS Merchandise Planning 6.1

Learn how to:

- manage all aspects of setting up and maintaining SAS Merchandise Planning 6.1 for business use.

Who should attend: SAS planning administrators or those tasked with setting up and maintaining SAS Merchandise Planning 6.1 for business use

Level IV: Advanced

Delivery: Classroom

Duration: 8 days

Learn more:

support.sas.com/courses/smiadmin.html

Technical Overview of SAS® Merchandise Planning 6.1

This course focuses on the technical aspects of defining a SAS Merchandise Planning 6.1 solution based on customer business requirements. It prepares technical consultants to participate in the Solution Definition Workshop (SDW) in which the project team determines how best to implement business processes.

Learn how to:

- make use of the underlying architecture of SAS Merchandise Planning 6.1
- implement using the SAS methodology
- manage technical roles and responsibilities during an implementation project.

Who should attend: SAS Technical, Application, and Metadata consultants as well as customer associates engaged in the implementation of SAS Merchandise Planning 6.1

Level II: Fundamentals

Delivery: Classroom

Duration: 1.5 days

Learn more:
support.sas.com/courses/smitech.html

Using SAS® Markdown Optimization 3.2

This course provides you with the knowledge and hands-on skills that you need to use SAS Markdown Optimization 3.2. SAS Markdown Optimization 3.2, a component of SAS Revenue Optimization Suite, enables you to identify and implement optimal price strategies for products that are ready for permanent removal from your inventory.

Learn how to:

- create initial markdown plans
- review markdown plans for exceptions
- adjust markdown plans
- approve price changes
- use SAS Markdown Optimization reports.

Who should attend: Business users of SAS Markdown Optimization, including pricing analysts, merchandise planners, buyers, assistants, and managers, as well as SAS consultants involved in implementing this solution

Level II: Fundamentals

Delivery: Classroom

Duration: 1 day

Learn more:
support.sas.com/courses/smimd.html

Using SAS® Size Profiling

This course provides you with the knowledge and hands-on skills that you need to use SAS Size Profiling 1.2. SAS Size Profiling, a component of the SAS Size Optimization suite, enables you to identify and implement optimal size profiles for future assortment ordering and allocation.

Learn how to:

- create data projects
- review and approve size sets
- review and approve stores groups
- generate profiles
- create profile plans
- publish and manage profiles.

Who should attend: Business users of SAS Size Profiling (including sizing analysts or other merchants), as well as SAS consultants involved in implementing this solution

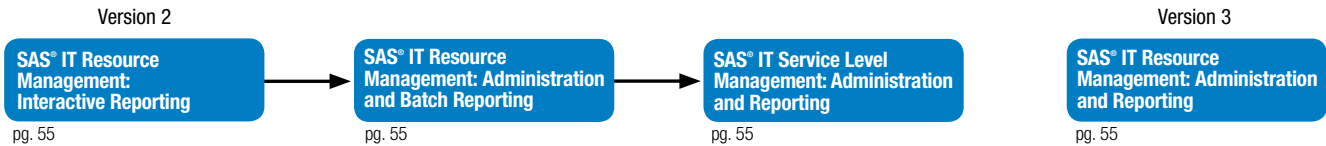
Level III: Intermediate

Delivery: Classroom

Duration: 1 day

Learn more:
support.sas.com/courses/smiszp.html

IT Management



Advanced and Specialty Courses

IT Capacity Management with SAS®

SAS® IT Resource Management: Administration and Batch Reporting

This course teaches you how to build and maintain a performance data warehouse (PDB) and produce a Web gallery of production reports using SAS IT Resource Management software.

Learn how to:

- understand the architecture and data flow of SAS IT Resource Management and the structure of a PDB
- create, customize, and load data into a PDB interactively and in batch mode
- use macros to generate reports in batch mode
- build a Web gallery for reports.

Who should attend: IT administrators as well as analysts who want to gain a deeper understanding of the product architecture and capabilities

Level III: Intermediate

Delivery: Classroom

Duration: 2 days

Learn more:

support.sas.com/courses/itad25.html

SAS® IT Resource Management: Administration and Reporting

This course provides an introduction to SAS IT Resource Management 3.1. The course uses SAS IT Resource Management to build and maintain an IT data mart and explores the use of this solution to create the jobs that

extract, transform, load, and summarize IT performance and usage data. SAS Enterprise Intelligence Platform is used to create and deliver reports from the IT data mart.

Learn how to:

- define and build an IT data mart
- use an IT data mart to deliver analysis- and report-ready data to members of your organization
- use components of SAS Enterprise Intelligence Platform to create report definitions and to produce and deliver reports via the SAS Mid-Tier Server to the Web.

Who should attend: IT professionals who are responsible for the performance and capacity management of their IT resources.

Level III: Intermediate

Delivery: On-site only

Duration: 4 days

Learn more:

support.sas.com/courses/itrm3.html

SAS® IT Resource Management: Interactive Reporting

This course teaches you how to produce reports from your SAS IT Resource Management data.

Learn how to:

- create, customize, and manage report definitions and exception reports
- create production reports on the Web.

Who should attend: Analysts and IT administrators

Level II: Fundamentals

Delivery: Classroom

Duration: 1 day

Learn more:

support.sas.com/courses/itar25.html

SAS® IT Service Level Management: Administration and Reporting

This course explores the concepts of service level management and the IT Infrastructure Library (ITIL) service management process, as well as the SAS IT Service Level Management implementation of those concepts.

Learn how to:

- explain service level management (SLM) and the basic IT Infrastructure Library (ITIL) processes for SLM
- define services in the catalog
- create customer contracts
- process data for contracts
- produce reports on contracts
- execute and monitor active contracts.

Who should attend: Ideally, both the IT service level management system administrator and the contract administrator from a single organization

Level III: Intermediate

Delivery: Classroom

Duration: 3 days

Learn more:

support.sas.com/courses/itslm.html

Warranty Analysis

SAS® Warranty Analysis Training

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SAS® Warranty Analysis Training

This course teaches end users the SAS Warranty Analysis interface. The course covers how to select warranty data and produce warranty reports to investigate the root cause of warranty issues.

Learn how to:

- create filter and report definitions
- view report output
- identify and investigate emerging issues.

Who should attend: Warranty end users who are statisticians, as well as novice warranty analysts who do not have a statistical background

Level I: Getting Started

Delivery: Classroom

Duration: 3 days

Learn more:
support.sas.com/courses/swat.html

Human Capital Management

SAS® Human Capital Management for Strategic Decision Making

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SAS® Human Capital Management for Strategic Decision Making

This course teaches students how to view, access, and analyze information as well as build reports using SAS Human Capital Management software.

Learn how to:

- navigate SAS Human Capital Management using the SAS Information Delivery Portal
- view summary information using key performance indicators and dashboards
- use the employee browser to view detailed employee information
- view and analyze organization and geographic information
- create reports on the Web and using Microsoft Office applications
- understand and use the predictive analysis capacities within SAS Human Capital Management.

Who should attend: End users of SAS Human Capital Management 4 who want to analyze and report on their organization's human resources data

Level I: Getting Started

Delivery: Classroom

Duration: 3 days

Learn more:
support.sas.com/courses/hcm4usr.html

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- SAS® Enterprise Guide®
- SAS® Data Integration Studio
- SAS® OLAP cube viewers
- Base SAS®
- SAS® Forecast Studio 1.4
- SAS/GRAPH®
- SAS/Warehouse Administrator®
- SAS® Certification preparation

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Title	License Period (days)	Duration (hours)
Business Intelligence		
Creating and Viewing OLAP Cubes	90	10
Creating OLAP Cubes	30	2
Viewing OLAP Cubes Using SAS® Enterprise Guide®	30	2
Viewing OLAP Cubes Using the SAS® Web OLAP Viewer for Java	30	2.5
Viewing OLAP Cubes Using the SAS® Web OLAP Viewer for .NET	30	2
Creating and Viewing Reports Using the SAS® Add-In for Microsoft Office	90	6
Viewing Results and Running Stored Processes Using the SAS® Add-In for Microsoft Office	30	2
Querying Data and Running SAS® Tasks Using the SAS® Add-In for Microsoft Office	30	3
Creating and Viewing Reports Using SAS® Web Report Studio	90	15
Viewing Reports Using SAS® Web Report Studio	30	2
Modifying Reports Using SAS® Web Report Studio	30	3.5
Creating Basic Reports Using SAS® Web Report Studio	30	3
Creating Advanced Reports Using SAS® Web Report Studio	30	3.5
Creating Information Maps Using SAS® Information Map Studio	30	2.5
Creating and Viewing Reports Using SAS® Enterprise Guide®	90	10.5
Getting Started with SAS® Enterprise Guide®	365	2
Querying Data Using SAS® Enterprise Guide®	30	1.5
Creating and Customizing Reports Using SAS® Enterprise Guide®	30	2
Performing Statistical Analyses Using SAS® Enterprise Guide®: Examples	30	2
Developing Stored Processes Using SAS® Enterprise Guide®	30	3
SAS®9 Intelligence Platform Administration	365	13
Enterprise BI Library with SAS® Enterprise Guide®	365	46.5
SAS® Enterprise Guide®		
Querying, Reporting, and Analyzing Data Using SAS® Enterprise Guide®	90	8
Performing Statistical Analyses Using SAS® Enterprise Guide®: Examples	30	2
Querying Data Using SAS® Enterprise Guide®	30	1.5
Creating and Customizing Reports Using SAS® Enterprise Guide®	30	2
SAS® Certification		
SAS® Certification: Base Programming for SAS®9	180	37
SAS® Certification Practice Exam: Base Programming for SAS®9	180	1.5
SAS® Certification: Advanced Programming for SAS®9	180	40
SAS® Certification Practice Exam: Advanced Programming for SAS®9	180	1.5
SAS® Programming		
SAS® Programming Introduction: Basic Concepts	365	13
Programming Using SAS® Enterprise Guide®	30	1.5
SAS® Programming Library	365	38.5
Introduction to SAS® Programming	90	8.5
Basic Concepts	30	1
Using the Programming Workspace	30	1
Referencing Files and Setting Options	30	1
Editing and Debugging SAS® Programs	30	1
Creating List Reports	30	1.5
Creating SAS® Data Sets from Raw Data	30	1.5
Understanding DATA Step Processing	30	1.5

Title	License Period (days)	Duration (hours)
Producing Reports with SAS®	90	7
Creating and Applying User-Defined Formats	30	1
Creating Enhanced List and Summary Reports	30	1
Producing Descriptive Statistics	30	1
Producing HTML Output	30	1
Creating Tabular Reports	30	1.5
Enhancing HTML Tabular Reports	30	1.5
Producing Graphical Reports with SAS®	90	5
Creating Plots	30	1
Creating Bar and Pie Charts	30	1
Enhancing and Exporting Charts and Plots	30	1
Creating Drill-Down Graphs in HTML	30	2
Creating and Modifying SAS® Data Sets	90	12.5
Creating and Managing Variables	30	1
Reading SAS® Data Sets	30	1
Combining SAS® Data Sets	30	2
Performing Queries Using PROC SQL	30	1
Transforming Data with SAS® Functions	30	2
Accessing DBMS Data	30	1
Generating Data with DO Loops	30	1.5
Processing Variables with Arrays	30	1.5
Improving Program Efficiency with Macro Variables	30	1.5
Reading Various Types of Raw Data with SAS®	90	5.5
Reading Raw Data in Fixed Fields	30	1
Reading Free-Format Data	30	1
Reading Date and Time Values	30	1
Creating a Single Observation from Multiple Records	30	0.5
Creating Multiple Observations from a Single Record	30	1
Reading Hierarchical Files	30	0.5
Reading Variable-Length Records	30	0.5
SAS® Advanced Programming		
Advanced SAS® Programming Library	365	30
SAS® Macro Language	90	5.5
Introducing Macro Variables	30	1.5
Processing Macro Variables at Execution Time	30	1
Creating and Using Macro Programs	30	2
Storing Macro Programs	30	1
SQL Processing with SAS®	90	15
Performing Queries Using PROC SQL	30	1
Performing Advanced Queries Using PROC SQL	30	3.5
Combining Tables Horizontally Using PROC SQL	30	3
Combining Tables Vertically Using PROC SQL	30	2
Creating and Managing Tables Using PROC SQL	30	3.5
Creating and Managing Indexes Using PROC SQL	30	0.5
Creating and Managing Views Using PROC SQL	30	0.5
Managing Processing Using PROC SQL	30	1

“The training courses and practice exams offered for Base and Advanced Certification are great products overall and helped me immensely in successfully completing the Base Programmer and Advanced Programmer Certification exams. Both courses and practice exams were meticulously organized with lots of interactive questions and provided the most cost-effective training option.”

Ragha Srinivasan
MPH, CHES, PMP, Certified SAS
Advanced Programmer for SAS®9
Senior Analyst

Title	License Period (days)	Duration (hours)
Advanced SAS® Programming Techniques	90	9.5
Creating Samples and Indexes	30	1.5
Combining Data Vertically	30	1.5
Combining Data Horizontally	30	1.5
Using Lookup Tables to Match Data	30	1.5
Formatting Data	30	1.5
Modifying SAS® Data Sets and Tracking Changes	30	2
Data Integration		
Creating an ETL Process Flow using SAS® Data Integration	30	2
An Introduction to Data Warehousing	60	5
One-Year-License Options		
SAS® Programming Library	365	38.5
Advanced SAS® Programming Library	365	28
Querying, Reporting, and Analyzing Data Using SAS® Enterprise Guide®	365	9
An Introduction to Data Warehousing	365	5
Introduction to SAS® Programming	365	8.5
Producing Reports with SAS®	365	7
Producing Graphical Reports with SAS®	365	5
Creating and Modifying SAS® Data Sets	365	12.5
Reading Various Types of Raw Data with SAS®	365	5.5
SAS® Macro Language	365	5.5
SQL Processing with SAS®	365	15.5
Advanced SAS® Programming Techniques	365	9.5
Analytics		
Viewing and Generating Basic Forecast using SAS® Forecast Studio	30	2.5
Applied Analytics Using SAS® Enterprise Miner™ 5	365	13
Tutorials		
Getting Started with SAS®	365	4
Getting Started with SAS® Enterprise Guide®	365	2
Getting Started with SAS® Enterprise Miner™	365	2.5
Getting Started with SAS/EIS®	365	4
Getting Started with SAS/GIS®	365	3
Getting Started with SAS/Warehouse Administrator®	365	2
Getting Started with SAS® ETL Studio	365	2

Registration Information

Registration made easy

There are several registration methods for SAS instructor-led training courses:

- Register via the **Web: www.sas.com/india/training/registration-new.html**
- Contact a course registrar at **91-22-6749 2222.**
- Fax the completed registration form to **91-22-6749 2299.**
- Mail the completed registration form to **SAS Institute India Pvt. Ltd., Apeejay House, 4th Floor, 3 Dinshaw Wachha Road, Churchgate, Mumbai - 400 020.**

Registration fees

Course fees vary. See course descriptions for pricing. All the prices mentioned are exclusive of taxes. Early registration is recommended because classes fill quickly. An early bird discount of 10% off standard course fees is available when you **register** and **pay** for the course at least four weeks in advance of the course start date.

Note: Students attending SAS courses are not allowed to have children or guests accompany them in the training center. Smoking is prohibited in SAS training centers.

Cancellation policy

If you are unable to attend the event for which you registered, please inform SAS as soon as possible. Fees are fully refundable if notification is received by phone, mail, or e-mail at least twelve calendar days prior to the scheduled start date of an event; after that (between eight to twelve calendar days), 50% of the event fee will be refunded. (between five to eight calendar days), 25% of the event fee will be refunded. Five or less than five days notice no refund shall be given.

SAS Education Service reserves the right to cancel / postpone the training at any time.

Special Offers & Discounts

Certification

- One attempt of SAS certification exam absolutely free for participants registering for either Base SAS, Advance SAS and predictive Modeling training program.

- Second attempt at 25% discount.

Early Bird Discount

Available to students who register and pre-pay at least four weeks prior to the scheduled start date of the course. (Purchase Orders are not accepted with this offer.)

Academic Discount

Available to students and employees associated with academic institutions, school districts, and education-related agencies attending a course held at a SAS training facility in India.

Repurchase Discount

Available to all ex SAS students on any 6 days training module.

Group Discount

Available when two or more individuals from the same organization register and pre-pay for the same public course together.

Training Locations

The SAS training programs are held across India at varied locations. For details contact:

Mumbai Office:

Apeejay House, 4th Floor,
3 Dinshaw Wachha Road,
Churchgate,
Mumbai - 400 020.
Tel : 91-22-6749 2222
Fax : 91-22-6749 2299

List of Professionals skilled in SAS technologies

To view lists of students who have successfully completed courses from SAS accredited institutes from across India please visit

www.sas.com/offices/asiapacific/india/training/sascp.html