

# Learn SAS<sup>®</sup>

Training | Certification | Coaching

# 2019



New courses in  
SAS<sup>®</sup> Viya<sup>®</sup>

sas  
THE POWER TO KNOW<sup>®</sup>

Grow With Us



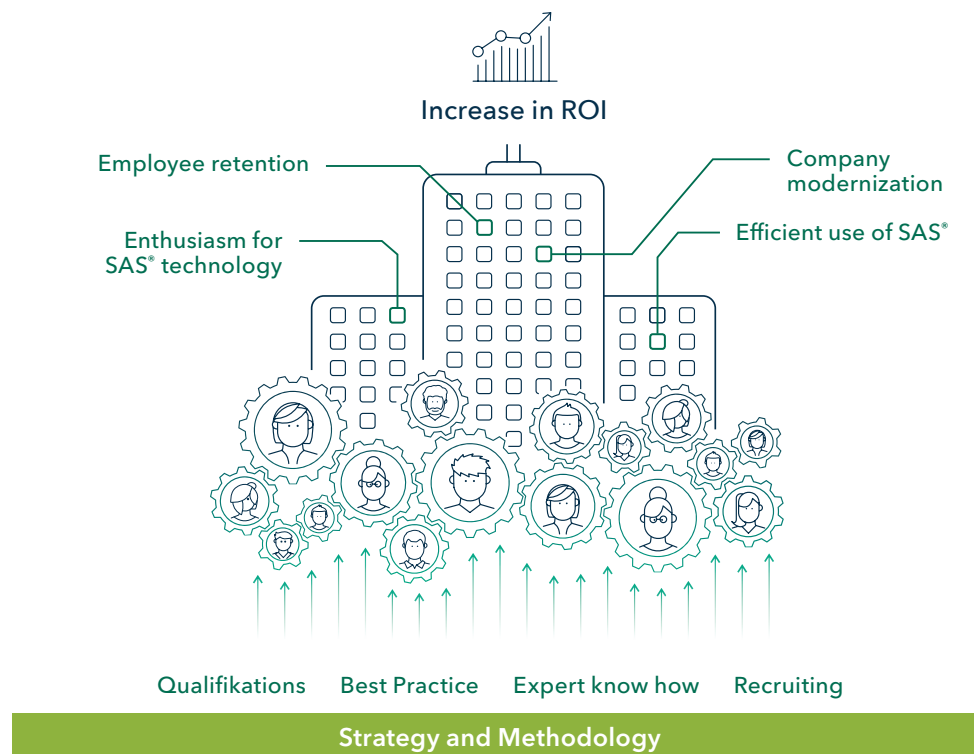
# Workforce Transformation



We support the staff during the innovation process of your organisation.

The demands of the world of work are changing massively: Processes are becoming ever more automated and digitised while the volume of work and information is increasing. The staff are facing completely new challenges. Workforce Transformation is a methodical way of developing and encouraging your staff and keeping talent in the

company. The appropriate methods of knowledge transfer are chosen after an individual analysis. Permanent feedback processes ensure the teaching content is closely linked to business-relevant requirements and therefore optimum use of the SAS® software.



## What does Workforce Transformation do?

- Methodical support of staff development for the innovation process
- Effective use of the SAS® software
- Introduction of new tools, technologies and processes
- Talent/career development of the staff
- Recruitment of new talent
- Increases staff satisfaction
- Lively community eradicates knowledge silos
- Better cooperation within and between teams

# Analytics Value Training

## Analytics Value Training for Data Science

The Analytics Value Training program helps you transform your organization to be more data driven and obtain business value with analytics

### The program:

- Provides the basic skills needed to solve real business problems with analytics
- Accommodates the participants with special fields of interest
- Includes diploma after examination and final presentation.

### Content:

The program is built around the four main areas of expertise needed to attain business value from analytics

- Statistics and mathematics (predictive models, clustering, machine learning, etc.)
- Programming and databases (system knowledge, programming languages and Hadoop).
- Communication (visualization, storytelling, presentations).
- Business understanding (value and industry-related business benefits with ROI).



### The program is delivered over 12 months as:

- 11 days of class workshops.
- Online training, including workshops
- Reading of selected business concept references.
- Presentations
- 7-14 days of deeper tools training (optional).

## Contact

### For more information

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# SAS® Programming Master Class

## Invest in your future

- Combining online training, workshops, self-studies, classroom, Analytics lab
- Certification
- Access to local Programming experts
- 11 days over a period of 6 months
- Quality assurance of programming skills/culture

### Content

- SAS® Programming 1: Essentials
- SAS® Programming 2: Data Manipulation Techniques
- SAS® Macro Language 1: Essentials
- SAS® SQL 1: Essentials
- SAS® Advanced Programming
- SAS® Certifications, Base & Advanced Programming
- Case Studies
- Analytics Lab
- E-learning

### Start your SAS® Programming Master Class in:

- Copenhagen 7 January
- Stockholm 21 January
- Oslo 22 January

Month	1	2	3	4	5	6
	● ●	● ● ●	● ●	● ●	●	● ●
Foundation			Advanced			
Analytics Lab - Case 1		Analytics Lab - Case 2	Analytics Lab - Case 3		Analytics Lab - Case 4	
SAS® Base Certification			SAS® Advanced Certification			

# Connected Classroom or Live Web Class?

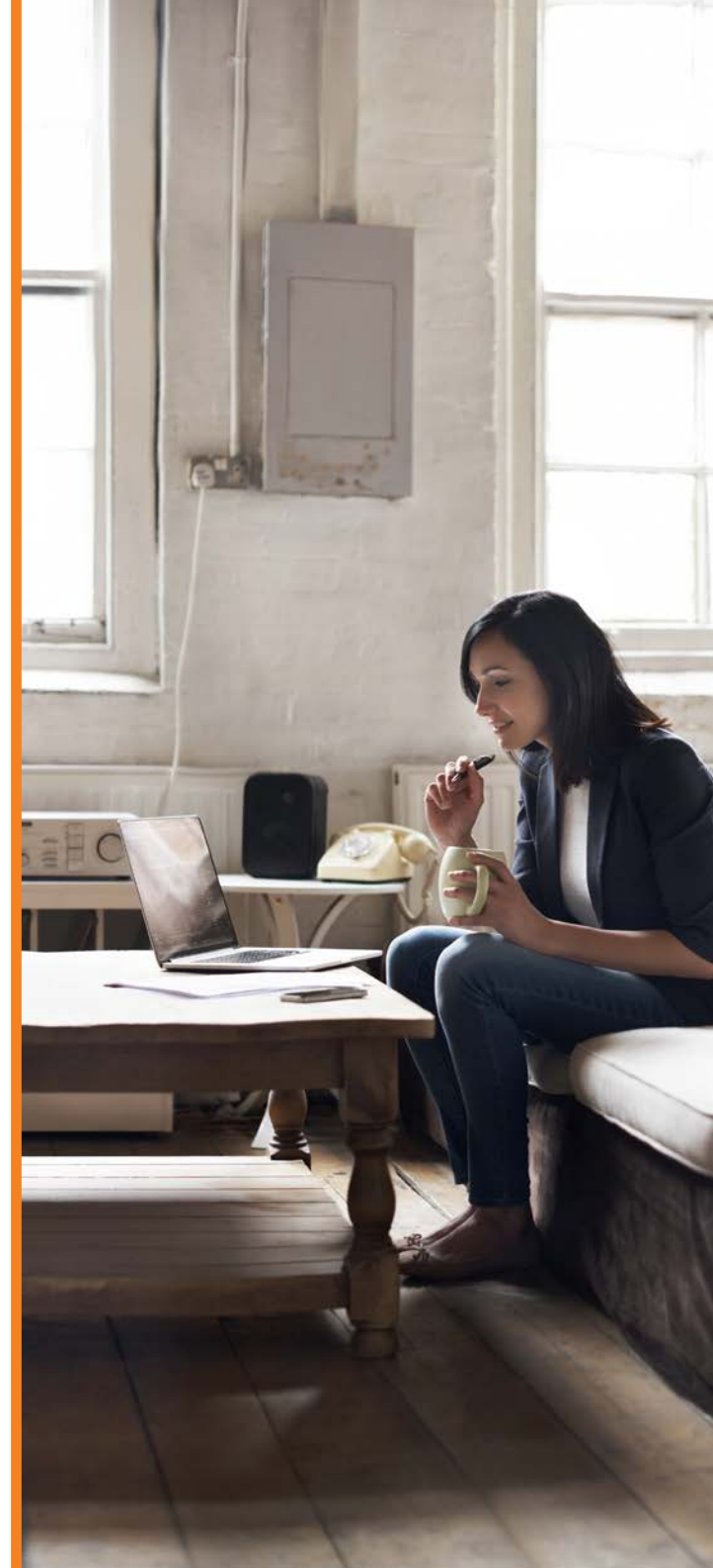
## Live and interactive like in the face-to-face course, but more flexible

Connected Classroom and Live Web Class are both teaching formats that allow you take part in the training "live", but from anywhere. This means you have the flexibility to take part from any location you like with your computer. You simply need internet access. This saves you time and travel costs.

In the Connected Classroom, you will be connected remotely to a face-to-face course and will be able to watch the trainer via a video image in the classroom. The trainer can involve their "virtual" participant just as much as their physical ones. Connected Classroom is lively and motivating.

## What distinguishes Classroom, Connected Classroom and Live Web Class?

	Classroom	Connected Classroom	Live Web Class
Live Event	✓	✓	✓
Auditory contact with the Instructor	✓	✓	✓
Visual contact with the Instructor	✓	✓	✗
Personal contact to the Instructor	✓	✗	✗
Practice environment is provided	✓	✓	✓
Networking	✓	✓	✗
Full-time	✓	✓	✗
Travel time required	✓	✗	✗
Travel expenses	✓	✗	✗
Internet access required	✗	✓	✓
Own PC / laptop required	✗	✓	✓
Headset required	✗	✓	✗





## Join FANS and get access to our popular network meetings

We currently have +120 leading brands participating in 5 different networks across 8 Nordic cities.

Interact, learn and grow.

[www.sas.com/fans](http://www.sas.com/fans)

### Network groups:

- Platform
- Analytics
- Visual Analytics
- Programming
- Cross Topic Network

### Activities:

- Webinars
- SAS® Support Community
- SAS® Flagship Event
- SAS® Intro Tour



## SAS® Learning Conferences for SAS® Users

TOPIC  
COMING  
in January  
2019




























- A different way of learning SAS® in 3 different conferences

- For SAS® Programmers & SAS® Enterprise Guide Users
- For SAS® Visual Analytics Users - coming in September
- For Programming & Analytics - coming in November

Each conference has 2 tracks and the possibility to Ask-the-experts

# Foundation Tools










SAS® Foundation is the foundation for all SAS® tasks, from data collection to data management and reporting. Base SAS® offers the user a flexible and extensible programming language






Programming	WebCode	Days	Format	January	February	March	April	May	June
SAS® Programming 1: Essentials	PG1	2	  	07 22 21 15		04 19 11	24	06 28 13	
SAS® Programming 2: Data Manipulation Techniques	PG2	2	  	14	26 11 19	13	24 01	13 07	25 03
SAS® Macro Language 1: Essentials	MC1	2 3	  	21		18 26 18 19		20 27	18
SAS® SQL 1: Essentials	SQ1	2 3	  	11	18	05	23 24	09	11 04
SAS® SQL 2: Advanced	SQ2					05 14			24
SAS® Programming 3: Advanced Techniques and Efficiencies	PG3	2	  					21	
Taking Your SAS® Programming Skills to the Next Level	PGSKL2	0,5	 					07	
SAS® Advanced DATA Step and Macro Techniques	PRG3MAC2					25 25			17 10
SAS® SQL Methods and More	SQLMM	0,5	 				02		
DS2 Programming Essentials	DS2E	2	 				03		
ODS Grapichs: Essentials	ODSGIN	2	 				09		
Introduction to SAS® and Hadoop	DIACHD	2	 			07			

Certification Exams	WebCode	Days	Format	January	February	March	April	May	June
SAS® Base Programming for SAS® 9		0,5		25	15	29	05 12		21 07 14
SAS® Advanced Programming for SAS® 9		0,5		25	15	29	05 12		21 07 14

 = Copenhagen  = Oslo  = Stockholm  = Espoo  = Live Web





 = Classroom  = Live Web Class/Connected Classroom  = E-Learning







SAS® Enterprise Guide®	WebCode	Days	Format	January	February	March	April	May	June
SAS® Enterprise Guide 1: Querying and Reporting	EG171	2	  	07 29 15	05	04 12 04		06 14 06	04
SAS® Enterprise Guide 2: Advanced Tasks and Querying	EG271	2	  	14	04	13 25		13 20	12
SAS® Enterprise Guide: Anova and Regression	EGBS71	2	  				09		

SAS® Grid Manager	WebCode	Days	Format	January	February	March	April	May	June
SAS® Programming on the Grid	SPGRID	1	  	29	28			23	03
SAS® Grid Manager Administration	PCADM	3	 		25		08	20	

## Advanced Analytics

SAS® Analytics, with its mathematical-statistical methods, is used by statisticians and business analysts in many business areas.

Data Mining	WebCode	Days	Format	January	February	March	April	May	June
Applied Analytics Using SAS® Enterprise Miner	AAEM	3	  			18 04 25	01		11 10
Machine Learning with SAS®	ML	2				07			





JMP Statistical Analysis	WebCode	Days	Format	January	February	March	April	May	June
JMP Software: A Case Study Approach to Data Exploration	JCSA	1	  				03		
JMP software: ANOVA and Regression	JANR	2	  				04		






Certification Exams	WebCode	Days	Format	January	February	March	April	May	June
Predictive Modeling Using SAS® Enterprise Miner™ 14		0,5		25	15	29	05 12		21 07 14
SAS® Statistical Business Analysis Using SAS® 9: Regression and Modeling		0,5		25	15	29	05 12		21 07 14








# SAS® Viya

With SAS® Viya, the cloud-ready, scalable open platform for modern machine learning, take your SAS9 data management and analytics expertise to a new level.

Administration	WebCode	Days	Format	January	February	March	April	May	June
SAS® Viya 3.2 Administration: Fundamentals	SAVI	3	 		05 11	27 04		15	18 04
UNIX Basics for SAS® Users		1	 	22	08 26	06 15		08 10 10	











Programming and Analytics	WebCode	Days	Format	January	February	March	April	May	June
Supervised Machine Learning Procedures Using SAS® Viya in SAS® Studio	DMML	2	 		19	18	04	01	
Data Preparation on the SAS® Viya Open Analytic Platform	DIDMPV	2			19 20	07	29	21 27 14	
Programming for SAS® Viya	PGVIYA	1	 	21	22	19	26 02	03	26
SAS® Visual Data Mining and Machine Learning on SAS® Viya: Interactive Machine Learning	VDMO	2						23	
Managing Models and Building Decisions in SAS® Viya	VMDM	1				01			

SAS® Visual Analytics on SAS® Viya	WebCode	Days	Format	January	February	March	April	May	June
SAS® Visual Analytics: Transitioning from SAS® 9 to SAS® Viya	YVAT	1	 	17	07 08	14 12	24 08	14	25 03 12
SAS® Visual Analytics in SAS® Viya: Fast Track	YVAVFT	3			26 05 04 11		01 15	20	11 17
SAS® Visual Statistics on SAS® Viya: Interactive Model Building	SVSO	2				25	25	20	

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# Business Intelligence and Analytics

SAS® Business Intelligence creates and distributes reliable reports - anywhere and always in the right form.









SAS® Visual Analytics	WebCode	Days	Format	January	February	March	April	May	June
SAS® Visual Analytics for SAS® 9: Fast Track	YVAF	3	 	28	18		01	06	
SAS® Visual Statistics: Interactive Model Building	SVSO	2					25		
SAS® Visual Analytics for SAS® 9: Administering a Distributed Deployment	YVAM	2	 			21			
SAS® Office Analytics: Getting Started	YOAG	1	 		14			09	
Creating Stored Processes Using SAS® 1: Essentials	YSP1V2	1	 				08		
Creating Stored Processes Using SAS® 2: Additional Topics	YSP2V2	2	 				09		



Certification Exams	WebCode	Days	Format	January	February	March	April	May	June
SAS® Visual Analytics 7.4 Exploration and Design		0,5		25	15	29	05 12		21 07 14
SAS® Interactive Model Building and Exploration Using SAS® Visual Statistics 7.4		0,5		25	15	29	05 12		21 07 14



# Data Management

SAS® Data Management masters the flood of data. This provides trusted and quality data throughout the enterprise.





Data Integration	WebCode	Days	Format	January	February	March	April	May	June
SAS® Data Integration Studio: Fast Track	DIFT	4	  	28	18	11	01	27 13	17
SAS® Federation Server: Accessing and Virtualizing Enterprise Data	DIFD	2	  			04			03
SAS® Data Governance Essentials	DBDN	2	 				23		

Data Quality	WebCode	Days	Format	January	February	March	April	May	June
DataFlux Data Management Studio: Fast Track	DQ26DMFT	4	 					13	

Certification Exams	WebCode	Days	Format	January	February	March	April	May	June
SAS® Data Integration Development for SAS®9		0,5		25	15	29	05 12		21 07 14
SAS® Data Quality Using DataFlux Data Management Studio		0,5		25	15	29	05 12		21 07 14

# Administration





With the SAS® Management Console, platform administrators assign user-specific rights, define the servers, and manage all available metadata. Administrators tailor the different clients to the company-specific environment and control the way data is kept..

SAS® Platform	WebCode	Days	Format	January	February	March	April	May	June
SAS® Platform Administration: Fast Track	SPAFM	3	 		12			27	
Managing the SAS® Platform with SAS® Environment Manager	SPAVM	1	 				30		

Certification Exams	WebCode	Days	Format	January	February	March	April	May	June
SAS® Platform Administration: Fast Track		0,5		25	15	29	05 12		21 07 14


# SAS® Solutions

SAS® Customer Intelligence solutions help companies plan, implement, and monitor their marketing strategy.

Customer Intelligence	WebCode	Days	Format	January	February	March	April	May	June
SAS® Marketing Automation: Designing and Executing Outbound Marketing Campaigns	CIST	2	 				11		
Development of Credit Scoring Applications Using SAS® Enterprise Miner	CSEM	1	 						06

# SAS® Learning Conferences

A different way of learning SAS® - The learning day has two tracks and the possibility to Ask-the-experts.

SAS® Learning Conferences	WebCode	Days	Format	January	February	March	April	May	June
Topic to be announced early 2019		1						15 16 23 21	

 = Copenhagen 
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# SAS® training

## – tailored to your needs



### Classroom courses

Our **open course programme** incorporates a range of courses on principles and specialist topics.

The courses are carried out by expert and accredited trainers who will impart sound SAS® expertise and you will experience how learning can be fun. Communication with participants from other companies will enrich your personal network.

A **company-specific course** will be individually tailored to the requirements of the target group. Whether at your place of work or our modern classrooms, whether group training or face to face with the trainer, whether standard or customised – many variants are possible. The training content is precisely tailored to your company's requirements.



### Coaching

Coaching at SAS® means making sure people can stand on their own feet for the long term. It is an individual and solutions-oriented form of learning whereby participants and trainers work together intensely on problem solving. This training would be put into practice when you are looking for a target-oriented way of solving this problem with SAS. Or, you have already attended an SAS® course and are looking for a particularly efficient way of putting your newly acquired knowledge into practice.



### Live Web Classes and Connected Classroom

Bring the classroom to your workplace. The training is designed in such a way that a high level of interaction and direct communication takes place with the trainer and other course participants in real time in a "virtual classroom". This saves you time and travel costs.



### E-Learning

Web-based learning at SAS® means boundless learning. You open your preferred SAS® software training straight from your computer and learn at your individual speed, wherever and whenever suits you best. The learning modules allow you to determine your progress yourself.

# JMP Learning Subscription

## Complete and flexible, so you can focus on learning

Looking to onboard new hires, expand employee knowledge or learn about the latest JMP technologies? Our unlimited e-learning subscription is a convenient, flexible way for you or your organization to get training when and where it's needed - in one purchase.

### What you get:

- E-learning
- Up-to-Date Content
- Help When You Need It
- Usage & Completion Reports



# SAS® Global Certification Program



## Make more of your SAS® know-how

Analytical know-how is an important skill these days and is necessary in many companies. An SAS® certificate is black-and-white proof of your solid knowledge. This reassures your company that you work at the highest level and that you efficiently employ the SAS® solution at your workplace. A competitive advantage for yourself and your company.

Advantages for the user	Advantages for your company
<ul style="list-style-type: none"><li>• Documentation and recognition of your SAS® know-how</li><li>• Confirmation of your own SAS® software knowledge</li><li>• Increased credibility as SAS® professional</li><li>• Improved career and market prospects</li></ul>	<ul style="list-style-type: none"><li>• Staff have more expertise in working with the SAS® software</li><li>• Increased productivity of staff members and teams</li><li>• Clear criteria for development of staff and teams</li><li>• Reliable inspection and documentation of SAS® expertise</li></ul>

## The SAS® Certifications

### SAS® Data Scientist

SAS® Certified Data Scientist Using SAS®9

- SAS® Certified Big Data Professional Using SAS®9
- SAS® Certified Advanced Analytics Professional Using SAS®9

### Advanced Analytics

SAS® Certified Predictive Modeler Using SAS® Enterprise Miner™ 13

SAS® Certified Statistical Business Analyst Using SAS®9: Regression and Modeling

### Foundation Tools

SAS® Certified Base Programmer for SAS®9

SAS® Certified Advanced Programmer for SAS®9

SAS® Certified Clinical Trials Programmer Using SAS®9

### Business Intelligence and Analytics

SAS® Certified BI Content Developer for SAS®9

SAS® Certified Visual Business Analyst: Exploration and Design Using Visual Analytics

SAS® Certified Visual Modeler Using SAS® Visual Statistics 7.4

### Data Management

SAS® Certified Data Integration Developer for SAS®9

SAS® Certified Data Quality Steward for SAS®9

### SAS® Administration

SAS® Certified Platform Administrator for SAS®9

# SAS® Academy for Data Science



Available as e-learning - test 7 days for free!

Staff with analytical skills are very much in demand. They can research company data, discover business-relevant potential in large data quantities and present the results convincingly. The Academy is available in a self-paced format so that your learning can be very flexible in terms of time and place.

- Flexible learning with e-learning allows on-the-job training
- Extended to one year
- Gain SAS® Certified Data Scientist accreditation
- Face-to-face teaching available with 50% discount
- Intensive SAS® training and introduction to R, Python, Pig, Hive and Hadoop
- Access to SAS® software to learn and practice
- Case studies provide strong practical examples
- Exclusive community for participants and experts to exchange knowledge



[www.sas.com/sas/data-science-academy](http://www.sas.com/sas/data-science-academy)

## Interested?

### Contact us at

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### To contact your local SAS® Office:

[www.sas.com/denmark/training](http://www.sas.com/denmark/training)  
[www.sas.com/sweden/training](http://www.sas.com/sweden/training)  
[www.sas.com/norway/training](http://www.sas.com/norway/training)  
[www.sas.com/finland/training](http://www.sas.com/finland/training)

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