



Formalities:

Block Seminar with 35 hours of tuition in total,
Language of instruction: English, Tuition Fee: EUR
600.00.

Participation requirements: A school-leaving level
attending university as recognised in the Federal
state of Hamburg , and, at least three years of either
professional experience, vocational or academic
training .

Starting Date of the course: 8 October 2010

Certificates of participation will be distributed to all
participants.

Registration:

For registration please use the enclosed registration
form and fax it to:

+49 40 36138-751

After registration, participants will receive further
information on the course e.g. recommended
literature and organizational details.

HSBA The Gateway to Management Excellence

Further Information: www.hsba.de



Location:

HSBA Hamburg School of Business Administration,
Handelskammer City Campus, Alter Wall 38, 20457
Hamburg, Germany

HSBA Hamburg School of Business Administration
is the university of Hamburg's business world.
Managed and supervised by Hamburg Chamber of
Commerce and in cooperation with about 170
wellknown
companies, HSBA offers dual Bachelor of
Arts (B.A) study programmes in Business
Administration, Master of Arts (M.A.) and Master of
Business Administration (MBA) programmes as
well as Executive Education. A foundation sponsors
practicelated research projects.

Information and Registration:

HSBA Hamburg School of Business Administration,
Executive Education Center, Sabine Mauermann

Tel.: +49 40 36138-713

EXECUTIVE EDUCATION



**Mathematics &
Statistics**

**INFORMATION AND
REGISTRATION**

Aim of this course

The participant shall be able to

- Dispose of basic mathematical knowledge in applying mathematical procedures and methods, Transfer economic problems in mathematical formulas,
- Solve formal problems with applicable methods and algorithms,
- Evaluate and interpret mathematical solutions of economic problems and judge the use of mathematical concepts with regard to the assumed premises and conditions.

There is no direct link of the mathematical procedures and methods to the company's functional departments. The mathematical knowledge is fundamental for the student's further studies, e.g. in statistics, finance and accounting, marketing, logistics etc.

Target groups

Any junior or senior professional, who wants to fresh up their mathematical or statistical knowledge. Or for those, who want to develop a broad basis, to work with quantitative methods, either in a professional or an academic environment.

Preparatory course for MBA-Programs

Dates

Mathematics:

Fr	8 Oct. 10	1.30 p.m. – 4.45 p.m.
Thur	21 Oct. 10	5.00 p.m. – 8.15 p.m.
Sat	23 Oct. 10	9.00 a.m. – 12.15 p.m.
Mon	1 Nov. 10	8.00 a.m. – 12.15 p.m.

Statistics:

Mon	1 Nov. 10	1.00 p.m. – 4.15 p.m.
Tue	2 Nov. 10	8.00 a.m. – 11.15 a.m.
Thur	4 Nov. 10	8.00 a.m. – 11.15 a.m.
Fri	5 Nov. 10	8.00 a.m. – 11.15 a.m.
Sat	6 Nov. 10	9.00 p.m. – 10.30 a.m.

Contents of this Course

Financial Mathematics

Basics:

- Compound interest, present values and future values
- Calculation of annuities
- Calculation of instalments
- Internal rate of return
- Periodic interest rate
- Excursion: Continuous compounding

Linear Programming

- Systems stems of inequalities
- Linear systems of equations
- Linear optimization problems
- Graphical solution of problems with two variables
- Simplex method (standard maximization method)
- Economic interpretation of the solution and the slack variables
- Minimization problems
- Outlook on further problems

Statistics

- Introduction
- Descriptive statistics
- Probabilities
- Continuous probability distributions: The normal distribution
- Confidence intervals and sample sizes
- Hypothesis tests: z tests and t tests
- Correlation and linear regression

Lecturer:

Prof. Dr. Sönke Hartmann (HSBA)
Prof. Dr. Philipp Zaeh (HSBA)

Binding Registration

Mathematics & Statistics

please fax to HSBA: +49 40 36 13 8-751

Ms/Mr First Name Surname

Company/Institution

Position

Street/No

ZIP Code/ City

Telefon

E-Mail

Date & Signature