

## Acquire cutting-edge knowledge and skills in a flexible and inspiring way

This unique online course from TU Delft in collaboration with Deloitte is for ambitious risk professionals, consultants and managers eager to master the most important models of credit risk management, and to understand and discuss the always-changing regulatory framework.



40 - 60 hours



24/7 Online access



Diverse learning materials



Interaction with participants & instructor



Professional Education Certificate

This online course comprises four modules that offer an effective blend of theory and practice to make it challenging and valuable for your work. With the knowledge and experience gained, you will be able to advance your current work tasks and support your future professional development in the field.

Dr. Pasquale Cirillo delivers the academic part of the course. He is a risk expert from the Department of Applied Mathematics at the Delft University of Technology (TU Delft), coordinator of the financial engineering specialization and experienced statistical consultant for major companies and institutions.

Credit risk practitioners from Deloitte share knowledge on credit risk in practice to ensure the course is relevant for the industry.

### A Live Chapter Meeting will take place to complement the online course and attendance to this session is optional.

The Live Chapter Meeting takes place at a Deloitte office. It is an interactive session on current credit risk topics where you can meet your fellow participants and the instructors, and discuss your questions. The Live Chapter Meeting does not impact the grading.

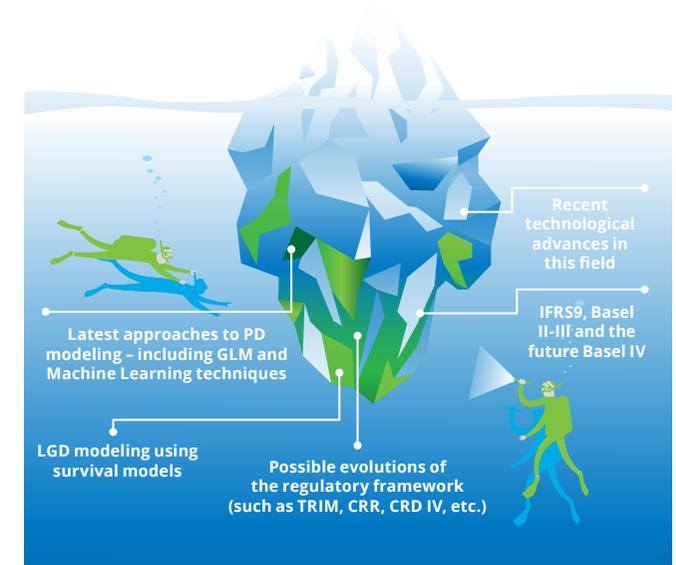
The Live Chapter Meeting will take place around May - June 2020 and exact locations are to be announced.

## Take a deep dive into the subject of Credit Risk

You may think you know a lot about the management of risk but could there be more to it than meets the eye?

This unique online course takes a deep dive into the subject of credit risk. It helps ambitious risk professionals, consultants and managers stay abreast of the latest developments in this field.

You will gain in-depth knowledge and hands-on experience of:



### Course contents

The course covers topics such as:

- The latest regulatory requirements, e.g. IFRS9, Basel II-III and the future Basel IV.
- Strengths and weaknesses of important credit risk models.
- Model risk and error quantification.
- A solid understanding of the mathematics behind credit risk modelling.

### Enroll today!

For more information about the online course, visit our website:

[www.understandtheiceberg.com](http://www.understandtheiceberg.com)



## Think you know enough about Credit Risk Management?

Follow our advanced online course and start to understand the iceberg.

## For professionals eager to broaden their understanding of credit risk

### Who should participate?

Anyone who is ambitious enough to seek a higher level of competence when dealing with credit risk. Participants may include:

- Credit risk professionals and managers who would like to understand what lies behind the formulas and models they use on a daily basis.
- Risk professionals who would like to increase their understanding of credit risk.



**Ambitious  
(Credit) Risk  
Professionals**

### Prerequisites:

- Knowledge of basic risk management.
- Statistics and probability at university level (upper bachelor level). For those needing revisions, links to external resources will be provided.
- Professional business experience is a plus.
- During the course, codes and examples will be developed using the R language (freely downloadable),

### Learning objectives

- Gain knowledge about the latest regulatory developments, such as IFRS9, Basel II-III and the future Basel IV.
- Develop a more solid understanding of the mathematics behind credit risk modeling, which will help you to better understand the foundation of the formulas and models you regularly use.
- Analyze the strengths and weaknesses of important credit risk models.
- Work with model risk and error quantification.
- Investigate the implications of dropping assumptions like Gaussianness.
- Explore open questions like small sample corrections and dependence modeling.

**“A great experience for everyone dealing with credit risk management and for those who want to advance their knowledge in that field.”** - Model developer Dutch Tier-1 bank

## Instructors



### Dr. Pasquale Cirillo

At TU Delft since 2012, Dr. Pasquale Cirillo received his Habilitation in Applied Statistics from the University of Bern, Switzerland, and his PhD in Statistics from Bocconi University, Italy. In addition to statistics, he studied economics at the Sant'Anna School of Advanced Studies in Pisa, Italy.

He is an expert in risk and extreme value theory, with applications in finance, economics and the social sciences. He has published in top international journals and collaborated with some of the most renowned international scholars in the field.

For TU Delft, he has developed the successful MOOC “An introduction to credit risk management” with about 70,000 students from all over the world. On campus he is the responsible instructor of courses like financial mathematics, stochastic calculus and credit risk modeling. Over the years, as a statistical consultant, he has extensively collaborated with many international institutions, banks and insurance companies.

## Deloitte.

### Deloitte professionals

Deloitte has a proven track record and global experience helping financial institutions to improve their model governance and model risk management.

Deloitte works closely together with regulators and is influencing decisions through involvement in industry discussions and initiatives, which means that Deloitte is always up to date on upcoming changes in the regulatory landscape.

Deloitte validates models and builds new models to quantify credit risk. For this Deloitte uses the latest technologies like artificial intelligence and neural networks, which have been proven to increase the quality of models.

## Enroll today!

Study at the time and place that suits you!

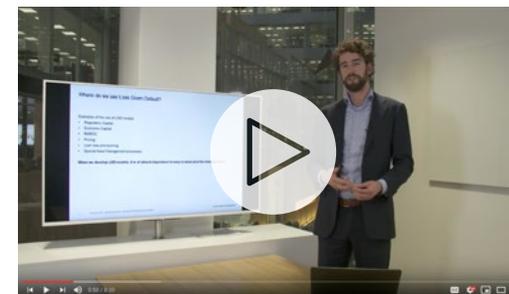
**Start date:** Start any time before **July 31, 2020** (Self-Paced)  
**Cost:** € 1.500



[www.understandtheiceberg.com](http://www.understandtheiceberg.com)

By completing this course you will earn a professional education certificate from TU Delft. With this certificate you are eligible to receive 4.0 Continuing Education Units (CEUs).

## Sample video lectures



[Click or scan the QR code to watch the videos](#)

Deloitte refers to one or more of Deloitte Touche Tohmatsu Limited, a UK private company limited by guarantee (“DTTL”), its network of member firms, and their related entities. DTTL and each of its member firms are legally separate and independent entities. DTTL (also referred to as “Deloitte Global”) does not provide services to clients. Please see [www.deloitte.com/about](http://www.deloitte.com/about) for a more detailed description of DTTL and its member firms.

Deloitte provides audit, tax, consulting, and financial advisory services to public and private clients spanning multiple industries. With a globally connected network of member firms in more than 150 countries and territories, Deloitte brings world-class capabilities and high-quality service to clients, delivering the insights they need to address their most complex business challenges. Deloitte’s more than 312,000 professionals are committed to becoming the standard of excellence.