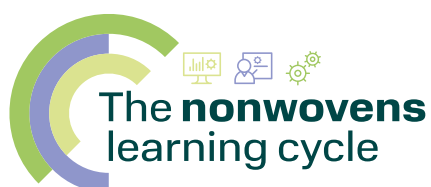




# Nonwovens essentials

## BRUSSELS



Keep abreast of developments in the manufacture, conversion and applications of nonwovens  
The Nonwovens Learning Cycle™, organised in collaboration with CETI, offers an integrated approach to nonwovens from the basics, via intermediate, to advanced courses in Carding and Spunmelt.

ORGANISED BY



IN COOPERATION WITH





## PROGRAMME & TIMING

# DAY 1

**Registration on the 1<sup>st</sup> day opens at 8.30**

**Each day the course starts at 9.00 and finishes at 17.00**

09.00

### Introduction and welcome

Welcome from EDANA, introductions of trainers and delegates

### INTRODUCTION OF NONWOVENS

Definition and applications of Nonwovens, review of the overall programme

10.30



### Coffee break

### WEB FORMING TECHNOLOGIES

Overview of background, process concepts and recent developments

### DRYLAID NONWOVENS

Carding and long fibre airlaid, including fibre characterisation and fibre opening

12.30



### Lunch

### WETLAID AND SHORT FIBRE AIRLAID

Development of wetlaid nonwovens from paper technology, comparison with short fibre airlaid

15.00



### Coffee break

### WEB FORMING TECHNOLOGIES – POLYMER TO WEB

Evaluation of the principal concepts of spunlaid, meltblown, and submicron spinning

17.30

### Wrap-up & end of the day



## PROGRAMME & TIMING

# DAY 2

09.00

### WEB CONSOLIDATION TECHNOLOGIES

Overview of background, process concepts and developments in bonding technologies

### CHEMICAL BONDING

Binders used

### THERMAL BONDING

Calendering, through-air

10.30



### Coffee break

### MECHANICAL BONDING

Needlepunch, hydroentanglement

### FINISHING

Winding, slitting, post treatments

12.30



### Lunch

### RAW MATERIALS FOR NONWOVENS

Overview of fibres and fibre classification, properties of different fibres

Choice of fibres in relation to product characteristics

Introduction of different polymers used for 'in situ' fibre production

Additives for special properties

15.00



### Coffee break

### NONWOVEN TEST METHODS

Introduction of the Nonwoven Standard Procedures (NWSP)

### NONWOVEN MARKET

Presentation of the latest available EDANA Statistics

### GROUP EXERCISE

Analyse a nonwoven-based product

# DAY 3

09.00

### Departure to R&D pilot plant by bus

Visit to CETI (Centre Européen des Textiles Innovants) in Tourcoing (France)

10.30

### Tour at CETI

The visit will allow the participants to actually see most of the production technologies which have been explained during the course

13.00



### Lunch

14.30

### End of the visit and departure

Arrival at Brussels Airport around 16.30

Arrival at EDANA offices around 17.00

## FACT FILE

### WHO SHOULD ATTEND?

Both technical and marketing persons will benefit from attending this course as they are likely to be involved with producers, suppliers, converters and retailers within the industry.

### COURSE ORGANISER

This course is organised by EDANA. The association is sponsor of INDEX, the world's largest nonwovens exhibition. EDANA has over 300 member companies in 35 countries.

### COURSE TRAINERS

**Marines Lagemaat**, Scientific and Technical Affairs Director at EDANA, will host the course and deliver it together with external expert **Olivier Guichon**, Consultant Nonwoven Process Expert at RH Solutions.

### LANGUAGE

The course language is English. The trainers make extensive use of visual aids, videos and samples. Active participation is encouraged from all delegates.

### NUMBERS

Each course is limited to around 20 delegates.

### VENUE

The course takes place at EDANA, Avenue des Nerviens 85, 1040 Brussels, Belgium, if a minimum number of 10 participants is reached.

### ACCOMMODATION

EDANA will provide hotel recommendations after registration.

### REGISTRATION FEE

Visit the EDANA website for more information about the registration fees. EDANA members benefit from a discounted rate.

### CERTIFICATE

After completing the training course, delegates are invited to take a short examination. If reaching the success target, they receive a unique qualification certificate.

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For more information  
about EDANA, please visit  
our website: **[www.edana.org](http://www.edana.org)**