



**SCHOTT**  
glass made of ideas

Turning knowledge  
into success.

SCHOTT FIOLAX Academy

SCHOTT is an international technology group with 130 years of experience in the areas of specialty glasses and materials and advanced technologies. With our high-quality products and intelligent solutions, we contribute to our customers' success and make SCHOTT part of everyone's life.

With a production capacity of more than 140,000 tons and production sites in Europe, South America and Asia, SCHOTT's business segment Tubing is one of the world's leading manufacturers of glass tubes, rods and profiles. Approximately 60 glass types are produced in large external diameters and a variety of lengths based on site-overlapping strategies in development, production and quality assurance. SCHOTT Tubing provides customized products and services for international growth markets such as pharmaceuticals and electronics as well as industrial and environmental engineering.



## SCHOTT Philosophy – Sharing knowledge leads to long-term value

Our Scientific Services department provides expert assistance in the properties of our glass tubing, in further processing and in the wide variety of applications of our FIOLAX® glass tubes. SCHOTT's team of qualified experts is optimally equipped with their own chemical and physical laboratories enabling us to apply cutting edge analytics that are specialized for the needs of the pharmaceutical industry. Our experts share their knowledge in a module based training concept which is called FIOLAX Academy. This intensive full-time training will provide you with profound know-how about glass such as glass defects, drug-container interaction, breakage risks, etc .

The FIOLAX Academy allows us to support our partners along the pharmaceutical value chain by increasing their quality and efficiency and in turn improve their domestic and international market position.







**FIOLAX® –  
First-hand choice since 1911**

FIOLAX® special glass tubing has been used for the manufacture of pharmaceutical primary packaging since 1911. Cutting-edge technology and excellent services are the basis for today's FIOLAX® quality.

Through our experienced specialists, the FIOLAX Academy provides you with the necessary knowledge through training sessions and lectures.

**The FIOLAX Academy –  
Benefit from first-hand knowledge**

- Provides in-depth know-how about glass, e.g., drug-container interaction, glass defects and breakage risks
- Helps you to improve the yield in your converting and filling process
- Shows you the benefits of using high quality glass tubing
- Supports your primary packaging development department
- Keeps you up-to-date about what's going on in the primary packaging world
- Helps you to strengthen your market position

**FIOLAX®**  
SINCE  
1911

  
**FIOLAX**  
ACADEMY

## SCHOTT FIOLAX Academy – Training to strengthen your market position

The FIOLAX Academy consists of 6 different modules which can be booked consecutively or individually. Training can take place at your site or in one of our production sites – according to your requirements. Training materials and certificates of attendance are also included.



### Module 1 Tubing Glass Basics

- Glass basics
- Tubing production process
- Plant tour (if the training is held at a SCHOTT Tubing site)
- Quality control of FIOLAX® and benefits for the converting/filling process

Duration:  
Half day

EUR 2,500.00

### Module 2 Drug Container Interaction

- Alkalinity and its impact
- pH shift, Extractables and Leachables
- Delamination
- Protein adsorption
- Surface treatments
- Light protection

Duration:  
Half day

EUR 2,500.00

### Module 3 Glass Defects

- Definition and classification of glass defects
- Airlines, inclusions, particles
- Stress
- Occurrence and prevention of breakage throughout the converting/filling process

Duration:  
2 - 3 hours

EUR 2,500.00

### Target Audience

Managers and decision makers in the fields of

- Quality
- Research and Development
- Production
- Purchasing
- Sales
- Primary Packaging Development
- Life Cycle Management

**Benefit from first-hand knowledge. We can create the ideal training plan for you.**

**Your personal contact:**

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### Module 4 Benchmarking

- Glass suppliers: What makes the difference?
- How does the quality of the tubing influence the quality of the final container?
- Tubing or molded? Glass or polymer?

Duration:  
2 - 3 hours

EUR 2,200.00

### Module 5 Individual Workshop

- FAQs
- Mix and Match: bring your own topics and questions to a unique knowledge transfer

Duration:  
Half day

EUR 2,200.00

### Module 6 Regulatory

- International Pharmacopoeia
- International and national standards
- REACH, RoHS, GMP

Duration:  
2 hours

EUR 1,500.00

Tubing

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