

# Sewer and Pipeline Engineering – Study material

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Sewer and pipeline construction: The current state of science and technology

**Numerous teaching materials** are available here online for students of Ruhr-University Bochum and Leibniz University Hanover and for participants in IKT's certification course "Sewer and Pipeline Engineering".

**The course content includes the following modules:**

|      |   |
|------|---|
| 001  | Introduction  |
| 002  | Open construction practice                          |
| 003  | Structural safety of pipes (Open-cut method)        |
| 004a | Soil and components: Flowable back-fill material    |
| 004b | Soil and components: Reinforced-concrete pipes      |
| 004c | Soil and components: Flexible pipes / Plastic pipes |

|     |   |
|-----|---|
| 005 | Trenchless construction – Overview        |
| 006 | Trenchless construction – Pipe jacking    |
| 007 | Rehabilitation – Objectives and tasks     |
| 008 | Rehabilitation – Replacement              |
| 009 | Rehabilitation – Repair                   |
| 010 | Rehabilitation – Renovation               |
| 011 | Structural integrity of liners            |
| 012 | Bonding and surface preparation           |
| 013 | Service-life of sewers and pipelines      |
| 014 | Tightness testing of sewers and pipelines |
| 015 | Root resistance of sewers and pipelines   |
| 016 | Heavy rainfall events                     |

## Study material

### Video presentations

All lectures are provided by video clips on Youtube (in English), see:

Youtube channel “Sewer an Pipeline Engineering (Seminar)”

### PDF downloads

(Access data will be issued during the course)

Textbook (all modules) (PDF file)

Slides of all modules (zip file, 50 MB)

Verbatim transcript of all video lectures (zip file, 26 MB)

All **contents are relevant** for the corresponding modules in the **Master’s programme** at the above-mentioned universities or for achieving the **IKT certificate!**

Students (Univ./IKT-Certificate) are welcome to **contact me at any time**. Please send a short email to [bosseler@ikt.institute](mailto:bosseler@ikt.institute) with your mobile phone number and I will contact you.



Prof. Bert Bosseler, IKT

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