



## “Essentials of Trenchless”

### Circular

21<sup>st</sup> May, 2020

IndSTT is launching its first online module of lecture series titled “Essentials of Trenchless”. In the first module, participants will be introduced to basis of various trenchless technology currently in practice. Second module shall comprise of 45 lectures on intermediate level of different essential topics of Trenchless Engineering. Working experience backed with the knowledge acquired through these lectures shall assist the practicing Trenchless Professionals in becoming self-reliant in the desired field of the technology application. This series will also provide the much-required technical inputs to the new entrants and other engineering fraternity members interested in various issues related to Trenchless Project Execution.

These two hours long lectures shall be delivered online through power point presentation.

The schedule of the lecture series is as per below.

S. No.	Topic	Date	Timing
1.	Introduction to Trenchless Technology-an overview	25 <sup>th</sup> May 2020	11.00 AM to 01.00 PM
2.	Introduction to Subsurface Utility Engineering	1 <sup>st</sup> June 2020	11.00 AM to 01.00 PM
3.	Introduction to New Installation Technique	8 <sup>th</sup> June 2020	11.00 AM to 01.00 PM
4.	Introduction to Trenchless Rehabilitation & Renewal	15 <sup>th</sup> June 2020	11.00 AM to 01.00 PM

### Contemporary Lecture

1.	Trenchless Techniques & Works
2.	Trenchless Capability Creation in India
3.	Subsurface Utility Engineering & Trenchless Technology
4.	Pipeline Condition Assessment & Trenchless Technology
5.	Trenchless Technology Selection Method
6.	Trenchless Technology Commercial Selection
7.	Introduction of Trenchless Technology in Project Design
8.	Introduction of Trenchless Technology in Project Management
9.	Introduction to Rehabilitation Techniques
10.	Introduction to Sewer Rehabilitation
11.	Defect Coding & Rehabilitation Planning
12.	Rehabilitation Technique CCTV Inspection

## Advance Lectures

1.	HDD project design	2.	Tracking and surveying basics for HDD
3.	Basics of drilling fluids Part- I	4.	Uniform Sewer Condition Classification System
5.	Geotechnical investigations	6.	Geotechnical Investigation methods & procedures
7.	Selection of technology for Sewer Rehabilitation and Replacement	8.	Stress analysis for steel product pipe in HDD
9.	Subsurface Utility Engineering	10.	Grouting, Theory & Technology
11.	Pipeline Condition Assessment	12.	Stress analysis for plastic product pipe in HDD
13.	Fiber glass pipe design	14.	Retrieval of Stuck pipe in HDD
15.	Basics of drilling fluids Part- II	16.	Grouting operations
17.	Downhole Tools for HDD	18.	Grouting to shut off seepage & Grout curtain
19.	Drilling Operator Qualifications	20.	Basic formulas & calculation for drilling
21.	Maintaining Borehole stability	22.	HDD Contract Conditions
23.	Reinforced Concrete Pipe Design	24.	Basics of Drillstring
25.	Basics of CIPP Technique	26.	Excavation safety
27.	Managing Drilling Operations	28.	Grouting in shafts & tunnels for strength
29.	Failures in plastic pipes	30.	Safety at street works
31.	Rehabilitation through Lining of Pipes	32.	Basics of Pipe Bursting Technique
33.	Specifications supervision and inspection of grouting	34.	Subsurface Asset Management Methods
35.	Drilling fluid Formula & calculation	36.	Confined Space Working
37.	Stresses around boreholes & borehole Failure criteria	38.	Water in surface & subsurface
39.	Stability during drilling in rocky strata	40.	Basics of slip lining
41.	Managing rehabilitation and renewal work sites	42.	Dispute resolution and trenchless contracts
43.	Moling and Pipe Ramming	44.	Basics of Auger Boring and Pipe Jacking
45.	Shafts construction for Trenchless Technology applications		

Participation in the series is on an individual lecture basis. The maximum candidate strength for each course is 30 to be allotted on a first-come-first-served basis. Participation fee for IndSTT members shall be Rs 500/- and for non-members it will be Rs. 1000/- per lecture. GST shall be charged @ 18% above prescribed fee.

For registration and details, please communicate with undersign.

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