

# Indian Society for Trenchless Technology

## Online Training Program Trenchless Rehabilitation Planning

Rehabilitation of deteriorating and damaged underground utility piped networks like water supply, sewerage, drainage, telecom, power, oil or gas or other utility networks is generally done by trenchless technology methods. Trenchless pipeline rehabilitation techniques are relatively newer working methods compared to conventional methods and assist in repairing or renewing the original pipeline without continuous ground excavation. Due to this virtue, it does not affect the normal life above the ground surface within the project battery area. Further as the extent of open cut excavations in trenchless is limited, social costs of the project are the least. Owing to such positive attributes, trenchless methods are being applied in more and more pipeline projects.

However, being state-of-the-art techniques they need substantial amount of planning by the utility owners, right of way owners, their engineers & consultants, and the contractors chosen to execute such projects. Else failures could occur. In fact, any shortcoming from these stakeholders could lead to a failed project. It is therefore imperative that all the involved shareholders must understand the complete project execution process and plan the works accordingly.

For success rehabilitation project planning should address all project requirements, from conceptualization to the project handing over stage. Professionals performing project planning should have clear understanding of following work components:

- Pipeline Cleaning,
- Project Preparatory Actions,
- Detection and Quality Designation of Pipeline,
- Renovation Method Selection,
- Front-end Engineering Design of Selected Method,
- Standard Construction Methodology and Codes of Practice,
- Quality Acceptance Criteria,
- Health, Safety, Environmental Protection & Management.

These components are to be linked to the approved trenchless renovation methods like *Sliplining*, *Pipe Segmental Lining*, *modified Sliplining*, *Cured in Place Pipe (CIPP)*, *Machine Wound Spirally Wound Lining*, *Spray Lining*, and *Localized Repairs*. In case the damages are beyond the repairable limits, *pipe bursting* remains the last trenchless option. Project planning therefore, need to be based on these techniques and relevant codes of practice.

To address this need, **Indian Society for Trenchless Technology**, the apex organization to promote the application of trenchless in India, has structured an online training program titled '**Trenchless Rehabilitation Planning**' to assist the stakeholders.

This training program summarizes all the essential work components of underground pipeline renovation through trenchless technology. It has 10 sessions in total, covering the above components. It is structured to provide the important inputs and criterion for planning a trenchless rehabilitation project covering design, construction, management, inspection and acceptance of pipeline renewal projects.

It would be useful for the designers, managers, researchers, engineers and technicians from municipal agencies involved with pipeline engineering, petroleum pipeline engineering, water supply and drainage engineering, environmental engineering, geological engineering and other related fields. It would also be useful for learners from the academia and students interested to pursue research and education in trenchless technology field.



## Indian Society for Trenchless Technology

Training program shall be conducted online from **5<sup>th</sup> Jul, 2021** to **8<sup>th</sup> Jul, 2021** and the program fee is **INR 7,500/- (Rupees Seven Thousand Five Hundred Only)**. Interested individuals could join specific modules as per their interest. Module wise calendar and individual fee is detailed hereafter:

| Sl. | Module   | Date                       | Starting Time | Fee (INR)* |
|-----|--|----------------------------|---------------|------------|
| 1   | Basics of Trenchless Rehabilitation            | 5 <sup>th</sup> July, 2021 | 11.00 AM      | 750/-      |
| 2   | Pipeline Cleaning                              | 5 <sup>th</sup> July, 2021 | 11:45 AM      | 750/-      |
| 3   | Project Preparatory Actions                    | 5 <sup>th</sup> July, 2021 | 12:30 PM      | 750/-      |
| 4   | Detection and Quality Designation of Pipelines | 6 <sup>th</sup> July, 2021 | 11:00 AM      | 750/-      |
| 5   | Renovation Method Selection                    | 6 <sup>th</sup> July, 2021 | 11:45 AM      | 750/-      |
| 6   | Project Front-end Engineering Design           | 7 <sup>th</sup> July, 2021 | 12:30 PM      | 750/-      |
| 7   | Construction Methodology & Codes of Practice   | 7 <sup>th</sup> July, 2021 | 11:00 AM      | 750/-      |
| 8   | Quality acceptance criteria                    | 7 <sup>th</sup> July, 2021 | 11:45 AM      | 750/-      |
| 9   | HSE protection & management                    | 8 <sup>th</sup> July, 2021 | 11:00 AM      | 750/-      |
| 10  | Trenchless Rehabilitation Planning             | 8 <sup>th</sup> July, 2021 | 11:45 AM      | 750/-      |

\* **GST @ 18% extra**

\***A discount of 10% is available for IndSTT/ICC/CIDC members/ PEs/APEs Registered by ECI / Empanelled Arbitrators of CIAC / Engineering Students and Faculty Members.**

Upon successful completion, participants would also receive CPD Credits of 10 hours for participating in complete program. For partial participation, credits would be awarded for the modules joined.

Interested individuals are requested to kindly complete the online '[Registration Form](#)' for confirmation.

Alternatively you may kindly send email to us at [indstt@indstt.com](mailto:indstt@indstt.com) or [indstt@gmail.com](mailto:indstt@gmail.com)

For any further details please contact:

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