



## IES-iNPQS WORKSHOP – GROUND IMPROVEMENT

With rapid urbanization in major cities in the region, many infrastructure, building and industrial projects are developed on areas with poor soil (e.g. estuarine or swamp) or new reclaimed land. Such areas pose many geotechnical challenges like settlement, bearing capacity or stability concerns. Ground improvement techniques can be used to resolve these challenges. In this seminar, we will cover the overview and experiences in the applications of Vibro Compaction (aka Vibro Flotation), Jet Grouting and Prefabricated Vertical Drains (PVD) in improving and strengthening the ground for infrastructure, building and industrial developments.

Case studies will be presented to illustrate the applications of Vibro Compaction for infrastructure and industrial projects. Special attention will be given on the suitability of soils for Vibro Compaction and post-evaluation method on effectiveness of Vibro Compaction work.

The speakers will present case studies on applications of prefabricated vertical drains (PVD) as ground improvement technique to overcome the problem of excessive settlement posed by poor and compressible soils. The prefabricated vertical drains (PVD) have been successfully applied in the construction of roads, embankments, airport, port, industrial projects and land reclamation projects in Singapore.

Although jet grouting has been used in Singapore for decades, it still remains misunderstood and a mystery to many. This seminar will provide some understanding on jet grouting, ways to design it and how to control it.

### Topics Include:

APPLICATION OF VIBRO COMPACTION FOR INFRASTRUCTURE AND INDUSTRIAL PROJECTS IN SINGAPORE

**By: Dr Leong Kam Weng**

EXPERIENCE WITH PREFABRICATED VERTICAL DRAINS AS A GROUND IMPROVEMENT TECHNIQUE IN SINGAPORE

**By: Mr Charles Lee Khoon**

EFFECTIVE USE AND CONTROL OF JET GROUTING IN SINGAPORE

**By: Er. Lee Yeong**

Date: 16 April 2021, Friday

Time: 8.45am to 12pm

CPD Program: STUs (Structural), PDUs for PEs and CEngs  
*(All to be Confirmed)*

Fees: \$100 (IES Members) / \$120 (Non Members)

*\*Fees Exclude 7% GST*

*\*Fees Include 1 Month Sub-Trial of iNPQS Platform (iCoreSpec) with restricted contents*



## Scan for More Information

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