

Tekla Structural Designer Advanced

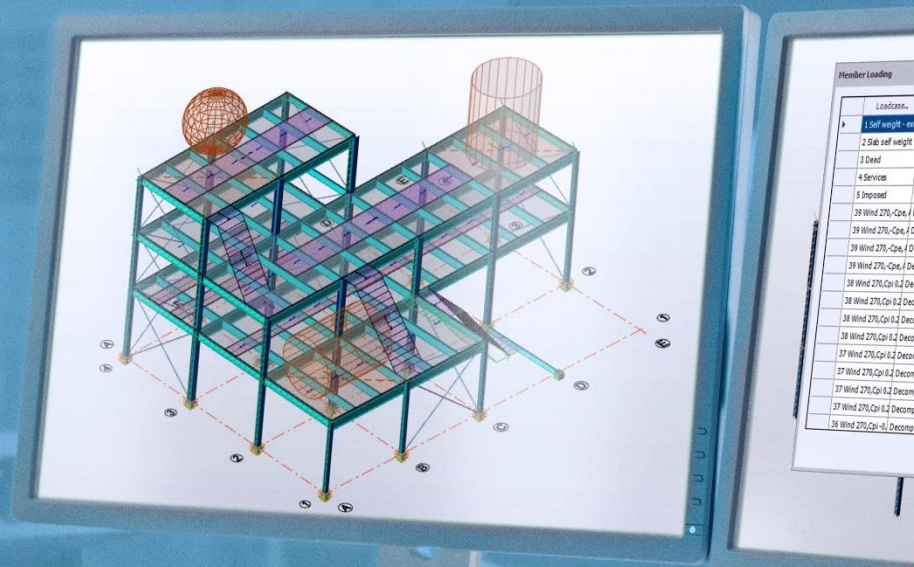
Public Program

Remote Online Training:

14-15 June 2022

2-5.30pm

In-House Program Available



Trainer:

Dr Steven Wong Tung Yew

Trimble Solutions Malaysia Sdn Bhd Company Registration No: 0628323X

Contact person: Wee Eng Yau +60 12-987 8190 / Chiang Xin Yi +60 10-270 8733

Email: Tekla.sales.my@trimble.com



HRD claimable course

program no.

10001153268

This advance module is aimed for those who have previously completed the TSD fundamental training course and want to learn about more advanced features and topics in the software.

You'll learn how to generate the commonly requested model information by wind tunnel specialist and also applying the wind loads via copy & paste to the structural model. For seismic module, you'll understand various input parameters, RSA analysis & design, and review mode shapes. Lastly, you'll also learn how to apply equipment loading and open structure wind load for your industrial projects.

Course information

In this advanced course, the learner will learn how to generate the commonly requested model information by the wind tunnel specialist and also apply the wind loads via copy & paste to the structural model. For the seismic module, we will go through various input parameters in more detail, understanding RSA analysis & design, and reviewing mode shapes. In addition, the learner will also learn how to apply equipment loading and open structure wind load for an industrial project.

- ▶ Skill level: Advanced
- ▶ Pre-requisites: Knowledge of engineering

Basic skills with Tekla Structural Designer

- ▶ Duration: 2 half-days
- ▶ Training method: Online

Agenda

Day 1

Wind Tunnel Testing

- Introduction
- Overview
- Exporting wind tunnel data workflow
- Using imported wind tunnel information

Data Generation for Wind Tunnel Specialist

- Wind Tunnel Data tab
- Generate model mass combination
- Review settings
- Modal analysis
- Result tables
- Export to Excel
- Mode shapes

Applying Wind Loads (from Wind Tunnel Specialist) at floor diaphragm

- Generate wind load cases
- Preparing loading in Excel template file
- Paste the loading to Diaphragm table
- Review the applied loading graphically

- Generate load combination, run analysis and design

Seismic Analysis and Design

Pre-requisites of running Seismic Wizard

Create Seismic Loads in Seismic Wizard

Seismic Wizard - Base Information

Seismic Wizard - Structure Regularity

Seismic Wizard - Fundamental Period

Seismic Wizard - Behaviour Factor

Seismic Wizard - Seismic Interia Combination

Seismic Wizard - Localization

Seismic Wizard - EC8 Seismic Combination Generator

Seismic Wizard - Seismic Loadcases and Combinations

Day 2

Response (Horizontal) Spectrum Curve

RSA Analysis and Member Design

Seismic Analysis Results

Seismic RSA Member Design

Vibration Mode Shapes

Vibration Mode Shapes Periods & Mass Participations

Total Mass Participation

Vibration Frequencies Report

Total Mass Participation Report

Seismic Design Reports

Second Order Effect - Interstorey drift

sensitivity coefficient

Seismic Drift Checks

Summary

Equipment Loading Overview

Model Equipment Loading

Equipment Loadcases

Creating Equipment Loading Exercises

Equipment Load Report

Open Structure Wind Load Introduction

Wind Load Calculation for Members and Ancillaries

Wind Load Calculation for Equipment

Shape Factors and Effective Area Factors

Apply Open Structure Wind Load

Open Structure Wind Load Report

Dr Steven Wong Tung Yew



The trainer is a Senior Technical Consultant and he helps Engineers to adopt Tekla's software. He was involved in providing technical support and project consultation to the end users of Tekla's software and also assisted in the development of the programs. He has considerable experience conducting event seminars and technical webinars.

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Date:
14-15 June 2022
2-5.30pm

Fee:
RM600/pax
excluding 6% SST

Company name: _____

Company address: _____

Person-in-charge: _____

Phone no.: _____ *Email:* _____

Name of participant(s)	Designation	Email address
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Payment

Payable to:
Trimble Solutions Malaysia Sdn Bhd

Contact

Trimble Solutions Malaysia Sdn Bhd
Suite B-12-5, North Point Offices,
No. 1 Medan Syed Putra Utara,
Mid Valley City, 59200
Kuala Lumpur, Malaysia

Contact person: Wee Eng Yau +60 12-987 8190/
Chiang Xin Yi +60 10-270 8733
Email: Tekla.sales.my@trimble.com
Website: www.tekla.com/sg

Terms and conditions

- Seat is confirmed only upon receipt of full payment prior to the program.
- Training fees will be invoiced from the customer in full in case HRD Corp's grant approval documents are not provided to Trimble before the training, customer fails to declare or sign claims forms in a timely manner and/or HRD Corp withdraws the grant for any reason.
- Trimble Solutions Malaysia Sdn Bhd reserves the right to cancel or postpone the program owing to unforeseen circumstances