

Training Certificate

is awarded to

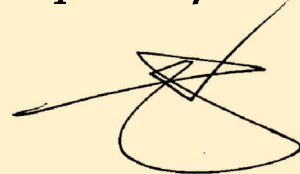
EDGARDO D. CASEÑAS

CONTROL NUMBER: 2020-MDRC-W15-008

*for having successfully attended and completed the 16 hours
online interactive with hands-on software application of*

**WORKSHOP ON DESIGN OF MEDIUM-RISE REINFORCED CONCRETE
STRUCTURES (8 STORY BUILDING) USING BENTLEY STAAD.PRO,
STAAD ADVANCED CONCRETE DESIGN (SACD RCDC)
AND STAAD FOUNDATION IN ACCORDANCE TO NSCP 2015**

Conducted this 14th to 17th day of December 2020.



ENGR. JOHN PAUL P. DELA ROSA
Director/Training Manager

COURSE OUTLINE

- 1.0 PROJECT OVERVIEW
- 2.0 BUILDING LOADS
- 3.0 STAAD.PRO SETTINGS, TOOLS AND COMMANDS

PART 1 – STRUCTURE MODELING, LOADING AND ANALYSIS USING STAAD.PRO

- 4.0 STARTING THE PROJECT
- 5.0 MODEL MANAGEMENT
- 6.0 APPLYING PROPERTIES
- 7.0 SUPPORTS
- 8.0 DIAPHRAGMS
- 9.0 LOAD APPLICATION
- 10.0 LOAD COMBINATIONS
- 11.0 CREATING LOAD ENVELOPES
- 12.0 CHECKING DRIFT FOR SEISMIC LOADS
- 13.0 ADDING SHEARWALLS
- 14.0 RUNNING THE FINAL ANALYSIS

PART 2 – REINFORCED CONCRETE DESIGN USING STAAD ADVANCED CONCRETE DESIGN (SACD RCDC)

- 15.0 BEAM DESIGN
- 16.0 COLUMN DESIGN
- 17.0 SLAB DESIGN
- 18.0 SHEARWALL DESIGN
- 19.0 STAIR DESIGN
- 20.0 SLAB-ON-GRADE DESIGN
- 21.0 FOUNDATION DESIGN (Mat Foundation)