



SAFE (Foundations)
CURRICULUM

- 1.0 INTRODUCTION**
- 2.0 UNDERSTANDING THE SOIL REPORT AND DECIDING ON THE TYPE OF FOOTING**
- 3.0 MAIN FACTORS TO BE CHECKED IN ANY TYPE OF FOUNDATION**
 - 3.1** Base Pressure Check
 - 3.2** Bending Moment Check
 - 3.3** One-Way Shear Check
 - 3.4** Two-Way Shear Check
- 4.0 EXPORTING MODEL FROM ETABS.**
- 5.0 IMPORTING MODEL TO SAFE.**
- 6.0 LOADS & LOAD COMBINATION**
 - 6.1** When to apply uplift loadings.
 - 6.2** Factored Load combinations.
 - 6.3** Un-factored Load combinations.
- 7.0 SUBGRADE MODULUS**
- 8.0 ISOLATED FOUNDATION**
 - 8.1** Draw Slab & Assigning Soil Properties
 - 8.2** Draw Strips
 - 8.3** Base Pressure Checks
 - 8.4** Design checks
 - 8.5** Detailing Rules
- 9.0 COMBINED FOUNDATION**
 - 9.1** Draw Slab & Assigning Soil Properties

- 9.2 Draw Strips
- 9.3 Base Pressure Checks
- 9.4 Design checks
- 9.5 Detailing Rules

9.0 RAFT FOUNDATION

- 9.1 Draw Slab & Assigning Soil Properties
- 9.2 Draw Strips
- 9.3 Base Pressure Checks
- 9.4 Design checks
- 9.5 Detailing Rules

10.0 PLIE FOUNDATION

- 10.1 Draw Pile Cap
 - 10.1.1 Assigning Point Springs
- 10.2 Draw Strips
- 10.3 Design checks
- 10.4 Detailing Rules

11.0 TEST

12.0 ASSIGNMENT