

MEGA JATI ACADEMY SDN BHD

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Design and Stability of Structures

TRAINING ID: MJA/CNS/2020/004

By

MEGA JATI ACADEMY SDN BHD

Jalan Marikh U5/174, CB Seksyen U5, 40150 Shah Alam, Selangor

2020

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1.0 INTRODUCTION

A structure is designed to fulfil two basic criteria i.e. strength and stiffness, by which the stability of the structure can be achieved. The consideration of stiffness requirement is often overlooked by engineers, whether those who are involved in the design or in the construction site. A comprehensive discussion on stability of steel structures is too wide, therefore the two-day short course will highlight briefly only the basic concept of each of the element of stability problem such as bending, axial, shear, lateral torsional and local buckling and stiffness of frame and connection. It applies to common types of structural elements i.e. beam, column and plate system during construction. Relevance clauses in the design code will be used as the reference in the discussion. Besides steel structures as the main scope of discussion, design and failure cases of reinforced concrete structures is also covered. Degradation of structures which is caused by time dependent factors such as fatigue due to repeated loading and due to progressing corrosion will also be discussed.

2.0 COURSE OBJECTIVES

The objectives of the course are:

- 1) To understand the general concept of structural system and design in the construction of building
- 2) To understand the basic formulations used in design, based on design standard references.
- 3) To learn few cases of structural failure and collapse, and to get lesson from the failure cases presented.

3.0 LANGUAGE & LOCATION:

The course material will be in English and Malay. Lectures will be held in the Client's Facilities.

4.0 COURSE FEE:

NO	METHOD OF PAYMENT	ACCOUNT NAME	BANK	ACCOUNT NUMBER	
	Cek /	Mega Jati	Bank Islam	1427-401000-7241	
1.	Online Transfer	ACADEMY	Malaysia		
		Sdn Bhd	Berhad		
2.	LO / HRDF	Mega Jati	Maybank Banking	5142-7132-6182	
		Consult Sdn Bhd	Berhad		
3.	e-Perolehan	Mega Jati	Nombor e-Pero	lehan Pembekal	
		Consult Sdn Bhd	eP-140	eP-140010377	

For help and further information please contact

1) Account: Miss Ria: 012 349 8656

2) Training: Miss Zahafarina: 017 419 3031

5.0 COURSE OUTLINE

COURSE	DESIGN AND STABILITY OF STRUCTURES			
DURATION REQUIRED	2 DAYS	LEARNING TIME	16 HOURS	
	LECTURE, SOFTWARE, DESIGN CALCULATION WORKSHOP, AUDIO VISUAL PRESENTATION			
CPD AWARDED	CIDB 20 CPD FOR EACH PARTICIPANT / HRDF CLAIMABLE			

TIME	8.30 AM – 10.30 AM	10.30 AM 11.00 AM	11.00 AM – 12.30 PM	12.30 PM 2.30 PM	2.30 PM 5.30 PM
FIRST DAY	INTRODUCTION TO STRUCTURAL DESIGN AND STABILITY	BREAK	OVERVIEW OF STEEL STRUCTURES DESIGN STABILITY OF STEEL BEAM, COLUMN AND PLATE	BREAK	CASE STUDY – FAILURE OF STEEL STRUCTURES
SECOND DAY	OVERVIEW OF CONCRETE STRUCTURES DESIGN		FATIGUE FAILURE		CASE STUDY –FAILURE OF CONCRETE STRUCTURES

*Subject to final changes

6.0 COURSE SPEAKER

*Subject to final changes.

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