



FMM Institute

Centre for Professional Development

MACHINE DESIGN FOR SUCCESSFUL AUTOMATION INITIATIVE

SBL
SCHEME
100%

In-House Training Available

INTRODUCTION

Today's market environment is in constant evolution: open borders, increased competition and technological upheaval. In order to be competitive within the global realm, companies are gradually moving towards automation. As such, a good machine design is a key element in any successful automation initiative.

CONTENTS

- Introduction to Automation
- Reasons for Automation
- Advantages and Disadvantages of Automation
- Manufacturing Process
- Types of Production
- Functions in Manufacturing System
- Organisation and Information Processing
- Types of Plant Layouts
- Automation Strategies
- Types and Functions of Jigs and Fixtures
- Supporting and Locating Principles
- Clamping and Work Holding Principles
- Basic Construction Principles
- Developing the Initial Machine Design
- Machine Design Terminology
- Problems Related to Machine Design

OBJECTIVES

This course aims to provide a comprehensive knowledge on applications and design of automated machines.

COURSE PRE-REQUISITE

Participants must have some technical knowledge or with Engineering background, familiar with basic mechanical components and also some knowledge in engineering drawing.

WHO SHOULD ATTEND

Technicians, Mechanical Engineers and Mechanical Maintenance personnel.

FACILITATOR

Mr Jason Rao is currently working as a Technical Consultant for various manufacturing industries. He has conducted numerous technical training programmes and supervised industrial projects in the Mechatronics field. He has also organised and conducted technical courses on Pneumatics Technology, Hydraulics Technology, Programmable Logic Controllers, Robotics Technology, Industrial Automation, Electrical and Electronics and Computer Programming for industries, universities and technical institutions. He was involved extensively in corporate training for manufacturing industries such as Omron Malaysia Sdn. Bhd., Amsteel Sdn. Bhd., Panasonic (M) Sdn. Bhd. Hume Fibreboard Sdn. Bhd., Samsung Corning Sdn. Bhd., ALPS Electric Sdn. Bhd., West Port Malaysia, Megasteel Sdn. Bhd., Elektrisola (M) Sdn. Bhd. and JG Containers Sdn. Bhd.

He holds a MLVK in General Mechanics (Basic & Intermediate) from ITI Prai, Diploma in Industrial Automation from German-Malaysian Institute, Kuala Lumpur, Bachelor of Engineering (Hons) in Mechatronics Engineering from University of Leeds, United Kingdom and Master of Science in Mechatronics Engineering from University of Newcastle Upon Tyne, United Kingdom, majoring in Industrial Automation and Robotics. He is also a Certified Verifying Officer for curriculum development for MARA institutions and colleges.

He has also undergone industrial working experience for five years in various manufacturing companies such as B.Braun Medical Industries, Festo (M) Sdn. Bhd. and APM Sdn. Bhd. He was involved in industrial projects on machine and production line automation for Siemens (M) Batu Berendam, Pusat Tenaga Nuclear and European Union Project (United Kingdom).

ADMINISTRATIVE DETAILS

Dates : **June 22-23, November 29-30, 2011**

Time : 9.00 am – 5.00 pm

Venue : FMM Institute
Wisma FMM, 2nd Floor
No. 3, Persiaran Dagang
PJU 9 Bandar Sri Damansara
52200 Kuala Lumpur

Fees : FMM Members – RM750 per participant
Non Members – RM950 per participant

(Fees include course materials, Certificate of Attendance, lunch and refreshments)

Registration is on a first-come-first-served basis. Cheques made in favour of the **“FMM Institute”** should be forwarded one week before the commencement of the programme. Completed registration form, that is faxed, mailed or e-mailed to FMM Institute, would be deemed as confirmed.

All cancellations must be made in writing. There will be no charge for cancellation received 10 or more working days before the start of the programme. Cancellation received 6 – 9 working days before the start of the programme is subject to a cancellation fee of 50% of the course fees. Cancellation received 5 working days and below before the start of the programme is subject to a cancellation fee of 100% of the course fees. If the participant fails to attend the programme, the full course fees are payable. However, replacement can be accepted at no additional cost.

10% discount is applicable for registration of three (3) or more participants from the same organisation and of the same billing source.

The FMM Institute reserves the right to change the facilitator, reschedule or cancel the programme and all efforts will be taken to inform participants of the changes.

*For further enquiries, please contact: Ms Ravathi/Pn Hafifah, **FMM Institute***

Tel: 03-62867200

Fax: 03-62756064/62776712

Website: www.fmm.edu.my

REGISTRATION FORM

MACHINE DESIGN FOR SUCCESSFUL AUTOMATION INITIATIVE

FMM Institute

Kuala Lumpur

The Manager
FMM Institute
Tel: 03-62867200
Fax: 03-62776712 / 62756064

Please tick () accordingly:

PSMB Scheme

SBL

Non-Contributor

Require vegetarian meal

Yes

No

June 22-23, 2011

November 29-30, 2011

Dear Madam,

Please register the following participant(s) for the above programme.
(To be completed in BLOCK LETTERS)

1	Name	Designation	E-mail
	Nationality	IC No.	
<hr/>			
2	Name	Designation	E-mail
	Nationality	IC No.	
<hr/>			

(If space is insufficient, please attach a separate list)

Enclosed cheque/bank draft No. _____ for RM _____

being payment for _____ participant(s) made in favour of the **“FMM Institute”**.

Submitted by:

Name: _____

Designation: _____ E-mail: _____

Company: _____

Address: _____

FMM Membership No.: _____ My Corporate Identity No.: _____

Tel No.: _____ Fax No.: _____ Date: _____