

COURSE TITLE : PROPORTIONAL HYDRAULICS TECHNOLOGY

COURSE OVERVIEW

The course is designed to provide participants with the fundamental knowledge and practical applications of proportional hydraulics system. The course will cover the theory of proportional, its symbols and actual components of proportional hydraulic system. Participants will be trained to read, construct on workbench, set parameter of proportional hydraulic system and to analyze the result from the practical experiment based on actual hydraulic press machine.

COURSE OBJECTIVES

Upon completion of this course, participants will be able to:

- Explain the fundamental properties of proportional hydraulics and its applications.
- Identify the component and functions of proportional hydraulic and electrical component according to ISO standard.
- Read, set parameter and construct proportional hydraulic and electrical control circuit diagram.
- Analyze the result from the practical experiment.

THE UNIQUENESS OF THIS COURSE

- Exposure to the basic proportional hydraulic system, electrical control circuit and its applications.
- A combination of theoretical knowledge and practical experiment applied in the same lab.

WHO SHOULD ATTEND

The course is designed for those in the automation sector and keen to acquire the fundamentals of proportional hydraulic system.

CONTACT PERSON: Mr. Ravdarn Raman, 03-8921 9046 or 012-2656041 or email ravdarn@gmi.edu.my

TARGET GROUP

Technicians, Supervisors, Automation, Designers and Engineers.

KEY TOPICS

- Proportional hydraulics and its applications
- Basic fundamental of proportional
- Symbols and Standard.
- Proportional directional control valve.
- Electrical control circuit diagram
- Control velocity, acceleration and deceleration of hydraulic system
- 4 Quadrant Mode to control acceleration and deceleration of press machine
- Proportional pressure valve in press machine

METHODOLOGY

Lectures, discussions, exercises and practical

COURSE DURATION

3 Days

PRE-REQUISITE

Fundamental hydraulic and electro-hydraulic Knowledge

CERTIFICATION

Certificate of attendance will be issued to those who fulfill 80% of attendance.

Minimum participants: 6