MEGA JATI ACADEMY SDN BHD

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Theory and Practical Operation of Low Voltage Electrical Equipment: LOW VOLTAGE ALTERNATOR

TRAINING ID: MJA/ELEC/2020/004

MEGA JATI ACADEMY SDN BHD

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

2020

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1.0 INTRODUCTION

The three-phase alternator, as the name implies, has three single-phase windings spaced such that the voltage induced in any one phase is displaced by 120º from the other two. A schematic diagram of a three-phase stator with all the coils becomes complex and it is difficult to see what is actually happening. Rather than having six leads coming out of the three-phase alternator, the same leads from each phase may be connected together to form a **wye (Y)** connection, It is called a **wye** connection because without the neutral, the windings appear as the letter **Y** in this case. The neutral connection is brought out to a terminal when a single-phase load must be supplied. In a three-phase, Y-connected alternator, the total voltage, or line voltage, across any two of the three line leads is the vector sum of the individual phase voltages. Because the windings form only one path for current flow between phases, the line and phase currents are the same. A three-phase stator can also be connected so that the phases are connected end-to-end; it is now delta connected where in the delta connection, line voltages are equal to phase voltages, but each line current is equal to 1.73 times the phase current. Both the wye and the delta connections are used in alternators that will be explained through both lecture method and hands-on practice method for all participants.

(Source: https://electrical-engineering-portal.com)

2.0 COURSE OBJECTIVES

The objectives of the course are to extend the knowledge of participants on Practical Operation of Low Voltage Electrical Equipment: LOW VOLTAGE ALTERNATOR that important in electrical engineering personnel. The participants will be exposed to the operational of low voltage alternator according to the practices and applications. In addition, the basic design of low voltage alternator will be elaborated and shared. It will combine both theory and practices in operating, handling, troubleshooting and maintenance of low voltage alternator that been used in the industry.

3.0 LANGUAGE & LOCATION:

The course material will be in English and Malay. Lectures and practical works will be held at **suitable places once the course is confirmed.**

4.0 COURSE FEE:

NO	METHOD OF PAYMENT	ACCOUNT NAME	BANK	ACCOUNT NUMBER
1.	Cek / *Online Transfer*	Mega Jati ACADEMY Sdn Bhd	Bank Islam Malaysia Berhad	1427-401000-7241
2.	LO / HRDF	Mega Jati Consult Sdn Bhd	Maybank Banking Berhad	5142-7132-6182
3.	e-Perolehan	Mega Jati Consult Sdn Bhd	Nombor e-Perolehan Pembekal 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	**LOW VOLTAGE ALTERNATOR**		
DURATION REQUIRED	2 DAYS	**LEARNING TIME**	16 HOURS
METHOD OF LEARNING	LECTURE, LV WORKSHOP, DESIGN CALCULATION, DRAWINGS, AUDIO VISUAL.		
CPD AWARDED	**CIDB 20 CPD FOR EACH PARTICIPANT / HRDF CLAIMABLE**		

TIME / **DAY**	**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	**ALTERNATOR BASIC**	**BREAK**	**TYPE OF ALTERNATOR**	**BREAK**	**BLOK DIAGRAM OF ALTERNATOR**
SECOND DAY	**EXCITER VOLTAGE**		**AUTOMATIC VOLTAGE REGULATOR**		**PRACTICAL ALTERNATOR**

**Subject to final changes*

**Speakers will be disclosed upon request*

6.0 PROGRAM DIRECTOR

	**Ir. Abd. Mokhti B. Salleh** has a Master Degree in Lightning Protection System. He is currently a Chairman of Mega Jati Consult Sdn Bhd, the M&E Consultant. He has more than 30 years' experience in the field of Lightning and Surge Protection system. Ir Abd. Mokhti was appointed by JKR Electric Department, Malaysia as a Specialist Lightning and Surge Protection System for a period between May 2008 to April 2009. One of the scopes of works is to train the JKR Electric's engineers on the design of the Lightning and Surge Protection System. He has given many talks and seminar on Lightning and Surge Protection System. He was also appointed as Visiting Professor at Universiti Malaysia Perlis in 2015.
	**Muhammad Arkam Bin Che Munaaim** is a PEPC since 2005 and a MIEM in 2004. He a Certified Energy Manager Registered (REEM) with Suruhanjaya Tenaga Malaysia (ST) and a Certified Construction Project Manager (CCPM) of Construction Industry Development Board Malaysia (CIDB). He obtained his PhD in Energy Conservation from USM, Master of Science in Building Technology USM, where previously in year 2000 obtained his B. Eng. (Hons) in Electrical Engineering from UTM Skudai, Johor, Malaysia. His area of working includes renewable energy (solar, mini hydro), mechanical & electrical building services and project management.

**program Director is responsible to prepare the Course Outline, syllabus and appointment of the Speaker/s, Program Director is not necessarily the Speaker for the Course.*

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