

CENTRE FOR ADVANCEMENT & CONTINUING EDUCATION

ENHANCING YOUR BUSINESS PERFORMANCE



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ADVANCEMENT AND
CONTINUING EDUCATION

OIL & GAS
SHORT COURSES

1. AC 1 AIR-CONDITIONING & REFRIGERATION TECHNOLOGY

SYNOPSIS

The course is designed to develop the course participants to be competent in the technology of Air-Conditioning & Refrigeration system.

OBJECTIVE

This is an entry level course for technician, engineer, managerial position to prepare themselves to understand the principles of HVACR (Heating, Ventilating, Air Conditioning & Refrigerating) system.

DURATION

2 days

TARGET PARTICIPANTS

This an entry level course for technician to prepare themselves to locate fault and carry to basic maintenance jobs

2. AC 15 REFRIGERANT HANDLER CERTIFICATION

SYNOPSIS

The course is designed to develop the course participants to be qualified and certified as Residential and commercial Technician, to comply with the law and to help protect the environment for the future generation.

OBJECTIVE

This is the course for Technician to prepare them to understand the law of environment quality, the problem of ozone depletion & global, protocol and refrigerant characteristic. The technician also will be feed up with the knowledge of refrigeration system, system contamination, safety procedures and practical activities with good services practices procedures.

DURATION

3 days

TARGET PARTICIPANTS

Engineers and technicians which directly involved in HVAC industries.

3. ADVANCED AIRCRAFT COMPOSITE REPAIR

SYNOPSIS

This is an advanced course pertaining to general repair applications. Simulated damage to locations on monolithic and sandwich structures will be used for the repair practice. Typical repair techniques such as filler repair, ply replacement and sandwich structure repair for high temperature curing in open and hard to access areas in aircraft structures are carry out during this training. The procedure to carry out the repair and the materials used will adhere to the recommendation of a typical aircraft Structural Repair Manual. The repair will use hot bonder system to cure the damage replacement ply.

OBJECTIVE

Identification types of repair by using aircraft Structural Repair Manual (SRM), damage area inspections and identifications by visual inspection techniques, repair Methods: permanent vs. temporary repairs, scarf vs. stepped vs. mechanical patch repair scenarios, inspect and removed damage area, hot bonder application and vacuum bag consumable materials utilization, post repair inspection techniques and health and Safety Issues: proper handling, personal protection, allergic reactions, waste disposal.

DURATION

5 days

4. ARDUINO FOR BEGINNER

SYNOPSIS

Arduino was born at the Interaction Design Institute Ivrea (IDII), Italy in 2005, is an open-source electronics platform based on easy-to-use hardware and software, which is capable to read inputs from various sensors (e.g. light, accelerometer, sound, gyro and magneto) and turn it into outputs to various actuators (e.g. motor, LED, display and speaker). Arduino receives rapid interest from many electronics lovers and communities such as students, hobbyists, artists, programmers, and professionals, due to their advantages: inexpensive, cross-platform capabilities, simple and easy programing, open source software and hardware. Many has gathered around this open-source platform, sharing their ideas and have contributed countless of accessible knowledge that can be of great help to novices and experts alike; and thousands of projects from simple to complex scientific and engineering applications or instruments have been developed with Arduino worldwide.

OBJECTIVE

Provide essential skill and knowledge of developing Arduino based applications.

DURATION

2 - 3 days

TARGET PARTICIPANTS

Anyone who has interest to develop practical and fabulous applications for their life or working environment.

5. AUTODESK AUTOCAD 2D

SYNOPSIS

Computer Aided Design (CAD) software has become essential nowadays particularly in design related fields such as mechanical, electrical, plumbing, HVAC, architectural and structural designs. CAD software replaces manual design and drafting with an automated process, where the design ideas can be explored and visualized thru photorealistic renderings, and the design performance can be simulated as in the real world. AutoCAD is developed and marketed by Autodesk with the first released in December 1982. At that time, AutoCAD is running on microcomputers with internal graphics controllers, whereas most of the commercial CAD programs ran on mainframe or minicomputers with separate graphics terminal for each CAD operators or users. Thus, AutoCAD offered more flexibility and practicability compared to other programs, gaining popularity and widely used in the worldwide for 2D and 3D CAD and drafting. AutoCAD has become one of the most ubiquitous CAD program with the support from more than 700 training centers worldwide, and is used by many professionals across a wide range of industries such as architects, project managers, engineers and graphic designers. This training program provides the essential skills and knowledge needed to use the AutoCAD software in their work, as well to prepare them for their career development as certified AutoCAD professionals (professional exam is required at participating Autodesk Test Centre).

OBJECTIVE

To provide essential skill and knowledge of AutoCAD 2D drafting and to provide essential exercises and trainings to become AutoCAD certified professionals.

DURATION

5 days

TARGET PARTICIPANTS

Engineers and designers responsible for product design related activities.

6. AUTODESK INVENTOR ESSENTIALS

SYNOPSIS

Autodesk Inventor Essentials Training is designed to give students an excellent foundation to understand and familiarize with the features and commands of Inventor.

OBJECTIVE

At the end of the course, the participants will be able to utilize the design support system and on line help, create, constrain, and edit sketched features, effectively work with construction planes, axes and points, fillets, chamfers, shells and patterns, create views, sheets, title blocks, and edit part drawings, use assembly modeling to create, place and constrain components, design and sketch adaptive parts with features and occurrences, manage model data using templates and design assistant and exchange model data by linking, translating and importing.

DURATION

3 days

TARGET PARTICIPANTS

This an entry level course for new and beginner of Autodesk Inventor users who want to learn and prepare themselves to the essential tool principles of 3D parametric part design, assembly design and creating production-ready part assembly drawings.

7. AUTODESK INVENTOR STUDIO

SYNOPSIS

Autodesk Inventor Studio Training is designed to give students an excellent foundation to understand and familiarize with the features and commands of Inventor Studio.

OBJECTIVE

The primary objective of this course is to teach students the recommended workflows and basic skills needed to create photo-realistic renderings and animations of existing 3D parts and assemblies using Autodesk Inventor. Students learn the correct techniques and recommended workflows for defining the appearance of 3D models, creating and positioning light sources, and customizing camera settings to create renderings and animations in Autodesk Inventor.

DURATION

2 days

TARGET PARTICIPANTS

This an entry level course for technician to prepare themselves to locate fault and carry to basic maintenance jobs.

8. BASIC AIRCRAFT COMPOSITE REPAIR

SYNOPSIS

This is basic course pertaining to general repair applications. Simulated damage to locations on monolithic and sandwich structures will be used for the repair practice. Typical repair techniques such as filler repair, ply replacement and sandwich structure repair for low temperature curing in open areas are carry out during this training. The procedure to carry out the repair and the materials used will adhere to the recommendation of a typical aircraft Structural Repair Manual. The repair will use room temperature curing to cure the damage replacement ply.

OBJECTIVE

Identification types of repair by using aircraft Structural Repair Manual (SRM), damage area inspections and identifications by visual inspection techniques, repair Methods by using dry fabric and mixed resin cured under room temperature, inspect and remove damage area, vacuum bagging application for the open structure repair, post repair inspection techniques and health and Safety Issues: proper handling, personal protection, allergic reactions, waste disposal.

DURATION

5 days

9. BASIC SOLDERING

SYNOPSIS

In production operations involving electronic parts, today's operators will need the necessary soldering skills to perform a better job. The basic soldering skill training has been developed to cater to the needs of improving their abilities in this area. Better workmanship and proper care and maintenance of the tools to contribute to better quality products and higher productivity for the company. Basic Soldering will expose students with theoretical and practical of electronics soldering. This course will be an introduction stage to the students of soldering fields before they go further for a much complex product standardized soldering.

OBJECTIVE

- Expose student to basic soldering skills
- Ensure students to be able to manually solder electronics component.
- Students will identify good and bad soldering techniques.
- Student able to inspect any fault on soldering and circuit board.
- Introduce student to multiple industrial soldering standards.

DURATION

2 days

TARGET PARTICIPANTS

Department Heads, Engineers and Supervisors responsible for product and/or process design, verification and validation related activities, quality assurance, purchasing as well as sales and marketing.

10. BASIC TRANSISTOR

SYNOPSIS

Transistor is one of the main components for electronics product. Since the discovery of transistor, engineers able to develop much complex circuitry and lead to the development of computers. Transistor is used in many way, either as an amplifiers or switch. Switching of transistor introduce analogue electrics to digital electronics. Power consumption of electronics product drastically reduces and the complexity increased. Thus, with transistor, even the size of the electrical produce is reduced. Basic transistor will introduce students to the basic structure of semiconductors and how it is use to produce electronics component. For this course the focus is on diode, transistors and FET. From the understanding how this component works, the course progresses to the applications in the actual electronics product.

OBJECTIVE

- Analyze the operation of a half-wave rectifier and a full-wave rectifier
- Describe the transistor characteristics
- Explain the operation of a BJT class A amplifier
- Analyze class B amplifiers
- Analyze a transistor switching circuit
- Describe the basic structure and operation of JFETs and MOSFETs
- Analyze two types of FET amplifier configurations

DURATION

4 days

TARGET PARTICIPANTS

Department Heads, Engineers and Supervisors responsible for product and/or process design, verification and validation related activities, quality assurance, purchasing as well as sales and marketing.

11. CYCLE TIME MANAGEMENT

SYNOPSIS

Cycle time is the time required to complete a given process. The cycle time required to process a customer order might start with the customer phone call and end with the order being shipped. The overall process is made up of many sub-processes such as order entry, assembly, inspection, packaging, and shipping. The cumulative cycle time of all of the sub-processes in the operation determines the due date of delivery of the product to the customer. Reduction of Cycle Time means identifying and implementing efficient ways, methods and techniques to do tasks at a lower time than it was done before. Reducing cycle time requires eliminating or reducing non-value-added activity, which is defined as any activity that does not add value to the product. Reducing cycle time will have a significant impact on a company's bottom line when implemented. This course aims to enhance the knowledge and skills of the students to improve the productivity in a manufacturing organization by improving the method of doing the job. This course also focusses on the concept of developing a standard time for activities and present strategies to overcome bottlenecks in order to improve the cycle time in production.

OBJECTIVE

To identify factors that affect the productivity at workplace, conduct time study and establish the standard time for the work process and improve the cycle time and propose strategies to overcome bottlenecks in production.

DURATION

2 days

TARGET PARTICIPANTS

Department Heads, Engineers and Supervisors responsible for production and/or process design, Industrial Engineers responsible for Target setting, Engineers responsible for deriving/revising new SOPs.

12. DESTRUCTIVE / NON DESTRUCTIVE TEST

SYNOPSIS

This course is designed to provide basic knowledge and introduction to the various NDT methods and techniques commonly used to detect and examine defect in engineering works. It consists of radiography, ultrasonic, magnetic particles, liquid penetration and eddy current.

OBJECTIVE

Understanding the basic concepts of various non-destructive test methods, applications and limitations. Providing necessary knowledge and ability in identification and selection of NDT methods according to the conditions of the test specimens.

DURATION

2 days

TARGET PARTICIPANTS

New NDT practitioner, Manager, Supervisor, Engineer, Lecturer, Contractor, Consultant, Researcher, Supplier and Worker involved in NDT activities.

13. FAME1 – ARC WELDING – BEGINNER & INTERMEDIATE INTENSIVE TRAINING

SYNOPSIS

This course are designed to train and increase competency of welding technicians & technologist working in pipe connection & modification environment. It covers welding and metal fabrication process, fundamentals and principle of the process, the equipment and techniques for the welding commonly used in today's industry.

DURATION

2-5 days depending on level of requirements. Customized course also available.

TARGET PARTICIPANTS

Any personnel working in manufacturing, fabrication & services, from operators to supervisors.

14. FAME2 – WELDING INSPECTION & NON DESTRUCTIVE TESTING (NDT)

SYNOPSIS

This course are designed to train welding technicians & technologist seeking supervisory and managerial position, as well as supervisor, managers & engineers seeking to refresh their skill in inspection & NDT.

DURATION

2-5 days depending on level of requirements. Customized course also available.

TARGET PARTICIPANTS

Any personnel working in manufacturing, fabrication & services, from supervisor level and up, or welding technicians & technologist seeking career advancement. Participants need to have prior minimal practical welding skill before registering to this training.

15. FINITE ELEMENT ANALYSIS FOR PRODUCT DESIGN

SYNOPSIS

Finite element analysis (FEA) is a tool of design analysis. It is a numerical method for predicting how a product reacts to real-world forces, vibration, heat, fluid flow, and other physical effects. FEA shows whether a product will break, wear out, or work the way it was designed.

OBJECTIVE

To provide the preliminary knowledge needed to understand how finite element works and the important aspects of finite element analysis.

DURATION

1 day

TARGET PARTICIPANTS

Postgraduate and public with interests in Finite Element Analysis.

16. GEOMETRICAL DIMENSIONING AND TOLERANCE (GD&T)

SYNOPSIS

GD&T is a means of dimensioning & tolerancing a drawing which considers the function of the part and how this part functions with related parts. This allows a drawing to contain a more defined feature more accurately, without increasing tolerances. GD&T has increased in practice in last 15 years because of ISO 9000. ISO 9000 requires not only that something be required, but how it is to be controlled. For example, how round does a round feature have to be? GD&T is a system that uses standard symbols to indicate tolerances that are based on the feature's geometry. Sometimes called feature based dimensioning & tolerancing or true position dimensioning & tolerancing. GD&T practices are specified in ANSI Y14.5M-1994. This course aims to provide participants, especially new engineers, with a basic understanding of GD&T symbol develop to communicate precise design requirement on an engineering drawing. Realising GD&T critical element is in the quality process, most of international companies are now getting their engineers equipped with the knowledge on this system.

OBJECTIVE

- Understand the standard practices for stating dimensioning, tolerancing and related standards in engineering drawing.
- Communicate a clear and concise 3D mathematical language regarding product definition.
- Apply the basic procedures in GD & T requirements. • Comply with ANSI Y 14.5-1973, ANSI Y 14.5M-1982 and ASME Y 14.5-1994 requirements in drawing of products.

DURATION

2 days

TARGET PARTICIPANTS

Department Heads, Engineers and Supervisors responsible for product and/or process design, verification and validation related activities, quality assurance, purchasing as well as sales and marketing

17. HEATING, VENTILATION, AIR CONDITIONING (HVAC) PRACTICAL TRAINING FOR ENGINEERS – BEGINNER & INTERMEDIATE

SYNOPSIS

A beginner level and intermediate level course for technician, engineer and managerial position to prepare themselves to understand the principles of HVAC (Heating, Ventilating & Air Conditioning) system. Participants will be able to understand in detail as well as gaining technical knowledge related to HVAC from system design, maintenance and diagnosis.

DURATION

2-5 days, depending on request.

TARGET PARTICIPANTS

Technicians, Technologist and Engineers seeking basic knowledge or refresher course, also engineers seeking to experiment with our HVAC trainer facility.

18. HULL INSPECTION COURSE

SYNOPSIS

This programme was designed for four (4) days to gives exposure to participants on the related standard used by IACS members/classification societies worldwide and to provide the knowledge on the different types of defects and damage that occur in ship or hull structures. It will be beneficial to participants who carries out inspections of hull structures including superintendents, masters, first officers, shipyard personnel and surveyors.

OBJECTIVE

This course gives exposure on the related standard used by IACS members/classification societies worldwide and provides the knowledge on the different types of defects and damage that occur in ship or hull structures. The course will include theory, practical examples and case studies that will give the participant knowledge to assess the ship condition and plan for future maintenance.

DURATION

4 days

TARGET PARTICIPANTS

New NDT practitioner, Manager, Supervisor, Engineer, Lecturer, Contractor, Consultant, Researcher, Supplier and Worker involved in NDT activities.

19. HVACR 1 AIR-CONDITIONING & REFRIGERATION TECHNOLOGY

SYNOPSIS

The course is designed to develop the course participants to be competent in the technology of Air-Conditioning & Refrigeration system.

OBJECTIVE

This is an entry level course for technician, engineer, managerial position to prepare themselves to understand the principles of HVACR (Heating, Ventilating, Air Conditioning & Refrigerating) system.

DURATION

1 day

TARGET PARTICIPANTS

This an entry level course for technician to prepare themselves to locate fault and carry to basic maintenance jobs.

20. HVACR 2 AIR-CONDITIONING & REFRIGERATION MAINTENANCE

SYNOPSIS

The course is designed to develop the course participants to be competent in the servicing and maintenance of Air-Conditioning & Refrigeration system.

OBJECTIVE

This is an entry level course for technician, engineer, managerial position to prepare the participants to carry out the preventive and maintenance jobs in HVACR (Heating, Ventilating, Air Conditioning & Refrigerating) system.

DURATION

2 days

TARGET PARTICIPANTS

This an entry level course for technician to prepare themselves to locate fault and carry to basic maintenance jobs.

21. IL2 – FORKLIFT SAFE HANDLING & COMPETENCY TRAINING

SYNOPSIS

Department of Safety & Health (DOSH) requires any personnel intending to operate forklifts to be trained with safety courses and certified. This competency training are suitable for workers required to handle & operate forklifts in industries. Modules includes industrial standard for safety, forklift maintenance, troubleshooting, safe operation, and course test. Trainers are certified by National Institute of Occupational Safety & Health (NIOSH).

DURATION

2 days or 1 day intensive. Customized course also available.

TARGET PARTICIPANTS

All personnel involved in forklift operation, forklift operator.

22. INTERGRAPH SMART PLANT 3D

SYNOPSIS

S3D, the most advanced plant design software of-fered in two decades, is Intergraph Process, Power & Marine's next-generation, data-centric, rule-driven solution for streamlining engineering design pro-cesses while preserving existing data and making it more usable/re-usable. A member of Intergraph's SmartPlant® family of plant modeling software, Smart 3D is a full suite of complementary software that provides all the capabilities needed to design a plant, and then keep it as-built throughout its life cycle.

OBJECTIVE

Our aim is to fulfill the demand of plant design engineers and to enhance the competency of the participants throughout this soft-ware. We provide technical training and attachment to industry to develop the technical skills. The program will be endorsed by Ma-laysian Oil and Gas Service Council (MOGSC) and other related councils.

DURATION

2 days

TARGET PARTICIPANTS

All Designers and engineers, E&I Designers , Piping Designers, Structural Designers, Equipment Designers and HVAC Designers.

23. INTRODUCTION TO FIBERGLASS WORKS

SYNOPSIS

This introductory course will provide the participant with knowledge and skill in basic fiberglass works. The participant will be exposed to tools and materials of fiberglass works, basic techniques of hand laminating process and safe quality works.

OBJECTIVE

Define safety issues working with fiberglass, define tools and materials in fiberglass works, apply proper technique of basic hand laminating and making small fiberglass product.

DURATION

3 days

TARGET PARTICIPANTS

Students, Boat makers, Shipyard owners, Technician, Supervisor, Carpenter, Fishermen, Businessman, Lecturer and Trainers.

24. INTRODUCTION TO FLOATING LIQUEFIED NATURAL GAS (FLNG) TECHNOLOGY

SYNOPSIS

This introductory course will provide participants a knowledge of oil and gas industry. Participants will learn on the design and identifying operation of Floating Liquefied Natural Gas (FLNG). The objective of this course is to provide with the technical ideas related to LNG projects.

OBJECTIVE

Define safety issues specific to LNG and FLNG, understand basic operation of FLNG and understand technology use for FLNG projects.

DURATION

2 days

TARGET PARTICIPANTS

Shipbuilders, Offshore companies, Marine engineers and Engineering students.

25. INTRODUCTION TO MATLAB AND ITS GRAPHICAL USER INTERFACE (GUI)

SYNOPSIS

The course covers the basic and intermediate knowledge of MATLAB and its GUI for engineering purposes. It gives the participants a brief idea about MATLAB in solving mathematical calculations, arrays, figure plot, user defined functions as well as different programming structures. This course also focuses on the GUI feature of the MATLAB and gives a brief idea on the creation of a new GUI and its several components with the aids of examples. It also demonstrates the link up of any existing program to a new GUI.

OBJECTIVE

To provide students or researchers skill-full knowledge on the use of MATLAB for solving different types of problems, to train the participants in using built-in functions and user defined function, to simulate a dynamic system, to create GUI in MATLAB and get knowledge about its components, programming in GUI and link up with an existing program to a new GUI.

DURATION

2 days

TARGET PARTICIPANTS

Students, Personal related to FYP, Researchers interested to know MATLAB GUI, Programmers looking for MATLAB proficiency (Beginning level), Faculty members and Fresh engineering graduates.

26. MARINE ENGINEERING & MARINE MACHINERY (CBT) "MODULE 1: AUXILIARY SUPPORT SYSTEM"

SYNOPSIS

Content of the course will cover on various systems is used propel and operate the ship, this means the machinery required for propulsion, steering, anchoring and ship securing, cargo handling, air conditioning, power generation and its distribution. This course aims to provide the audience with a good understanding of marine engineering system and its application. The course begins with an overview of the system onboard ship and its function. With a good level of awareness in this subject matter, it is hoped that the participants will be better prepared to respond to the complex needs of their respective employment, and interact effectively with other professionals across the different parts of the value chain.

OBJECTIVE

Will equip participants with knowledge and understanding of Auxiliary support systems onboard ship. Also provide knowledge to participant on pump and pumping system, Air compressor, Heat Exchangers, Fresh Water Generator and Purifier/Clarifier.

DURATION

3 days

TARGET PARTICIPANT

Offshore staff, Mechanical/civil/electrical engineers, Pilots, Engineering students, Terminal managers and operators, Tank storage managers, Port authorities, Bunker operators, Ship owners and operators, Freight forwarders, charterers, and shipping agents, International logistics operators, Transport planners and engineers.

27. MARINE TECHNOLOGY KNOWLEDGE FOR NON-MARINERS "WHO WORK IN THE MARINE INDUSTRIES"

SYNOPSIS

This course will provide participants with a vast introductory knowledge on maritime operations especially meant for non-mariners who are the players in the industries especially on port terminal and ship operations. Participants will learn on the various elements on the rules and regulations in operational activities, together with the important terminology related to ship operation that enters the part.

OBJECTIVE

Ability to define ship types and parts, understand the fundamental terminology of marine and maritime operations, being explored to the technology use for marine and maritime operational activities and awareness on the maritime law & legislation.

DURATION

4 days

TARGET PARTICIPANTS

Offshore staff, Mechanical/civil/electrical engineers, Pilots, Engineering students, Terminal managers and operators, Tank storage managers, Port authorities, Bunker operators, Port owners and developers, Ship owners and operators, Marine and nautical service providers, Freight forwarders, charterers, and shipping agents, International logistics operators, Transport planners and engineers.

28. MG 1 MAINTENANCE MANAGEMENT PART 1

SYNOPSIS

The course is designed to develop the participants to be competent in the Maintenance Management Program.

OBJECTIVE

This is an entry level course for technician, engineer to prepare themselves to cover the definition, target, scope and characteristics of Maintenance Management which will lead to fulfill the objective of reliability and the relationship of machine degradation and maintenance concept and failure pattern and how it effects the manufacturing processes and the department itself.

DURATION

2 days

TARGET PARTICIPANTS

This is an entry level course for Industrial worker involved in manufacturing sector, assistant engineer, engineer, technician, and management team.

29. MG 2 MAINTENANCE MANAGEMENT PART 2

SYNOPSIS

The course is designed to develop the participants to be competent in the Maintenance Management Program.

OBJECTIVE

This is a second level course for technician, engineer to prepare themselves to cover the scope and characteristics of Maintenance Management Part 2 which will lead by explaining the problems of maintenance organization for the different forms of production. Operational and the maintenance relationship, explain the different forms of maintenance. Process Analysis and Unit Analysis and making an inventory of equipment and creating a codification. Creating and using a historic and information flow of maintenance work order, feedback and reports.

DURATION

2 days

TARGET PARTICIPANTS

This is an entry level course for Industrial worker involved in manufacturing sector, assistant engineer, engineer, technician, and management team.

30. MG 3 TOTAL PRODUCTIVE MAINTENANCE (TPM) PART 1

SYNOPSIS

The course is designed to develop the participants to be competent in the Total Productive Maintenance Program.

OBJECTIVE

This is an entry level course for technician, engineer to prepare themselves to cover the scope and characteristics of TPM which will lead by improving the existing maintenance system in implementing of TPM toward optimizing the plant equipment/facilities of unplanned shutdown Explain the different forms of maintenance. Process Analysis and Unit Analysis and increasing knowledge and skill of the frontline personnel in order to achieve TPM goals through Autonomous Maintenance Program.

DURATION

2 days

TARGET PARTICIPANTS

This is an entry level course for Industrial worker involved in manufacturing sector, assistant engineer, engineer, technician, and management team.

31. MG 4 TOTAL PRODUCTIVE MAINTENANCE (TPM) PART 2

SYNOPSIS

The course is designed to develop the participants to be competent in the Total Productive Maintenance Program.

OBJECTIVE

This is a second level course for technician, engineer to prepare themselves to cover the scope and characteristics of TPM which will lead by enhancing the reliability and ensure optimal condition of the equipment, effective implementation of production activities by securing and maintain equipment operation under constant reliability and activities to enhance availability and maintainability.

DURATION

2 days

TARGET PARTICIPANTS

This is an entry level course for Industrial worker involved in manufacturing sector, assistant engineer, engineer, technician, and management team.

32. OUTBOARD ENGINES: "MAINTENANCE, TROUBLESHOOTING & REPAIR

SYNOPSIS

This course will provide participants with the essential knowledge on the operation and care of small to medium sized outboard engines. A deep exposure on the operational parts of the outboard engine, troubleshooting and maintenance will be practically learned and experienced by participants during the session.

OBJECTIVE

Describe the working principles of two stroke and four stroke out board engines, maintain fuel, cooling, electrical and lubricating systems of marine out board engines, disassemble and re-assemble out board engines, assemble and disassemble marine out board transmission and marine outboard propellers, troubleshoot and diagnose simple mechanical problems affecting two (2) and four (4) stroke out board engines and read and interpret measuring instruments used in troubleshooting.

DURATION

4 days

TARGET PARTICIPANTS

Students, Mechanics, Technicians, Supervisors, Trainers, Engineers, Interested person to learn

33. PROFESSIONAL QUALIFICATION EXAMINATION FOR CHARTERED INSTITUTE OF LOGISTICS AND TRANSPORTATIONS

SYNOPSIS

This 18-month course held at weekends are perfect for professional working in Logistic and Transport industries looking for career advancement. This course leads to professional membership in Chartered Institute of Logistics & Transportation Malaysia, part of international CILT based in the United Kingdom. Members of CILT is recognized globally as experts in industrial Logistic management.

DURATION

18 month, in weekends. Customized plan also available.

TARGET PARTICIPANTS

Oil & Gas support industries, specifically professionals working in Logistics & Transportation, and supply chain managers, supervisors & staff.

34. IL2 – FORKLIFT SAFE HANDLING & COMPETENCY TRAINING

SYNOPSIS

Department of Safety & Health (DOSH) requires any personnel intending to operate forklifts to be trained with safety courses and certified. This competency training are suitable for workers required to handle & operate forklifts in industries. Modules includes industrial standard for safety, forklift maintenance, troubleshooting, safe operation, and course test. Trainers are certified by National Institute of Occupational Safety & Health (NIOSH).

DURATION

2 days or 1 day intensive. Customized course also available.

TARGET PARTICIPANTS

All personnel involved in forklift operation, forklift operator.

35. QE2 – YELLOW BELT & GREEN BELT SIX SIGMA CERTIFICATION

SYNOPSIS

This course focus on quality improvement of any area including manufacturing & service by aiming of reduction of non-conformity per million of products. Module includes failure cause analysis, statistical process control & strategic planning. Trainers consists of Industrial professionals with more than 20 years of experience in Quality engineering & industrial engineering. Green belt involves project-based activities with actual results applicable to participant's business activity.

DURATION

2-5 days depending on level of requirements. Customized course also available.

TARGET PARTICIPANTS

Any personnel working in manufacturing & services, from operators to management.

36. SAFETY INDUSTRY FOR CONSTRUCTION WORKER & "CIDB GREEN CARD APPLICATION"

SYNOPSIS

This is a 1 day training to help company employees understand the OSH legislations and regulations, the hazards, risks involved in working in or near construction environment, types of hazards and potential risk, various safety and health prevention methods and introduction to personal protective equipment. All these are to help employees interact with their workplace with a more cautious mindset to minimize accident occurrence, which could result in damage and/or loss in life and/or property.

OBJECTIVE

Ability to define ship types and parts, understand the fundamental terminology of marine and maritime operations, being explored to the technology use for marine and maritime operational activities and awareness on the maritime law & legislation.

DURATION

1 day

TARGET PARTICIPANTS

Project Managers, Project Leaders, Safety and Health Officers, Safety and Health Committee Members, Contractors, Engineers, Human Resource Personnel, Supervisors, Line Leaders and General Worker from the Construction and Maintenance Department.

37. SHIPBUILDING KNOWLEDGE FOR NON-NAVAL ARCHITECTS “WHO WORK IN THE SHIP CONSTRUCTION INDUSTRIES”

SYNOPSIS

This course will provide participants with a vast introductory knowledge on shipbuilding activities especially meant for non-naval architects who are the players and directly involved in the industries especially in ship construction. Participants will learn the various elements on the introduction of shipbuilding, together with ship production, and hull survey & inspection.

OBJECTIVE

Able to explore the introduction of shipbuilding, understand elements on ship production and get awareness & knowledge on hull survey & inspection activities.

DURATION

3 days

TARGET PARTICIPANTS

Offshore staff, Mechanical/civil/electrical engineers, Pilots, Engineering students, Terminal managers and operators, Tank storage managers, Port authorities, Bunker operators, Ship owners and operators, Freight forwarders, charterers, and shipping agents, International logistics operators, Transport planners and engineers.

38. SWITCHING AND SYNCHONIZING FOR HIGH VOLTAGE SYSTEM

SYNOPSIS

In offshore operation, where high voltage equipment is regularly used, it is important for personnel working near and around this equipment to have the understanding and appreciation of high voltage and its dangers as well as its accident prevention measures.

This training has been designed to give a realistic and authentic training using actual low voltage and high voltage equipment. The training involves simulation of actual high voltage operation running at an intrinsically safe environment to ensure the safety of the trainees. In this training, the trainees will be exposed to wide variety of topics relating to high voltage system including statutory regulations, safe operation, maintenance, switching, synchronizing and many more.

With a mix of both theoretical and practical learning experience in a dedicated high voltage setup, the training is aimed not only at those new to high voltage operations but also at those who want to expand their skillsets.

OBJECTIVE

- Describe the Functional, Operational and Safety requirements for Marine HV system
- Take remedial action necessary during system faults
- Produce a switching strategy for isolating LV and HV system components
- Select suitable apparatus for isolation and testing LV and HV equipment
- Perform a switching and isolation procedure on an offshore LV and HV system
- Perform generator synchronizing complete with safety documentation.

DURATION

5 days

TARGET PARTICIPANTS

The training for Offshore Technician, Engineer, Electrical Supervisor, Technician, Chargeman.

39. UNIKL PLANT DESIGN AND 3D MODELLING SHORTCOURSE

SYNOPSIS

PDMS as it is known in the 3D CAD industry, is a customizable, multi-user and multi-discipline, engineer controlled design software package for engineering, design and construction projects in offshore and on-shore. Engineers and designers can achieve very high levels of productivity on all types of plant project, from the smallest plant upgrade project to new-build projects of unlimited size and complexity.

OBJECTIVE

Our aim is to fulfill the demand of plant design engineers and to enhance the competency of the participants throughout this software. We provide technical training and attachment to industry to develop the technical skills. The program will be endorsed by Malaysian Oil and Gas Service Council (MOGSC) and other related councils.

DURATION

10 days / 20 days

TARGET PARTICIPANTS

All Designers and engineers, Piping Designers, Structural Designers, Equipment Designers, HVAC Designers and Designated Cats & Specs personnel with Piping Design background.

40. WL16 WELDING METALLURGY

SYNOPSIS

The course is designed to develop the course participants to be knowledgeable in welding Metallurgy and its application.

OBJECTIVE

This is an entry level course for technician, engineer to prepare them knowledgeable in terminology of welding metallurgy, conduct testing related and produce report writing.

DURATION

2 days

TARGET PARTICIPANTS

SPM, Welding personnel, QA/QC and Maintenance personnel.

41. WL17 SMAW ON CARBON STEEL

SYNOPSIS

The course is designed to develop the course participants to be competent in the SMAW (Sheet Metal Arc Welding) on Carbon Steel.

OBJECTIVE

This is an entry level course for technician, engineer to prepare themselves to develop knowledge and skill in producing quality fillet and groove weld on Carbon steel plate and pipe.

DURATION

4 days

TARGET PARTICIPANTS

Welding personnel, QA/QC and Maintenance personnel.

42. WL18 GMAW ON ALUMINUM

SYNOPSIS

The course is designed to develop the course participants to be competent in the GMAW (Gas Metal Arc Welding) on Aluminum.

OBJECTIVE

This is an entry level course for technician, engineer to prepare themselves to develop knowledge and skill in producing quality fillet and groove weld on Aluminum plate and pipe.

DURATION

4 days

TARGET PARTICIPANTS

Welding personnel, QA/QC and Maintenance personnel.

43. WL18 GMAW ON CARBON STEEL

SYNOPSIS

The course is designed to develop the course participants to be competent in the GMAW (Gas Metal Arc Welding) on Carbon Steel.

OBJECTIVE

This is an entry level course for technician, engineer to prepare themselves to develop knowledge and skill in producing quality fillet and groove weld on Carbon steel plate and pipe.

DURATION

4 days

TARGET PARTICIPANTS

Welding personnel, QA/QC and Maintenance personnel.

44. WL20 GTAW ON STAINLESS STEEL

SYNOPSIS

The course is designed to develop the course participants to be competent in the GTAW (Gas Tungsten Arc Welding) on Stainless Steel.

OBJECTIVE

This is an entry level course for technician, engineer to prepare themselves to develop knowledge and skill in producing quality fillet and groove weld on stainless steel plate and pipe.

DURATION

4 days

TARGET PARTICIPANTS

Welding personnel, QA/QC and Maintenance personnel.

SHORT COURSES

45. WL21 GTAW ON ALUMINUM

SYNOPSIS

The course is designed to develop the course participants to be competent in the GTAW (Gas Tungsten Arc Welding) on Aluminum.

OBJECTIVE

This is an entry level course for technician, engineer to prepare themselves to develop knowledge and skill in producing quality fillet and groove weld on Aluminum plate and pipe.

DURATION

4 days

TARGET PARTICIPANTS

Welding personnel, QA/QC and Maintenance personnel.

46. WL22 GTAW AND SMAW ON CARBON STEEL

SYNOPSIS

The course is designed to develop the course participants to be competent in the GTAW (Gas Tungsten Arc Welding) and SMAW (Sheet Metal Arc Welding) Carbon Steel.

OBJECTIVE

This is an entry level course for technician, engineer to prepare themselves to develop knowledge and skill in producing quality groove GTAW and SMAW weld on Carbon steel pipe.

DURATION

4 days

TARGET PARTICIPANTS

Welding personnel, QA/QC and Maintenance personnel.

**Where knowledge is applied
... and dreams realized**





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