

V2 Care
Empowering through Experience

Training 2018



V2 Care Sdn. Bhd. is a HRDF Malaysia (PSMB) registered training provider.

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Process Piping

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Get In Touch With V2 Care

www.v2care.com.my



V2 Care Sdn. Bhd. is a HRDF Malaysia (PSMB) registered training provider.

Background

V2 Care Sdn. Bhd. is a company that primarily carries out the business of engineering consultancy, project management, field maintenance services and training. Since formation in 2003, we have been involved in varied projects for several industries, which include :

- Project management for PSR-2 project at Petronas Penapisan Melaka Sdn Bhd, Melaka;
- Commissioning of KLCC Gas District Cooling boilers for Mitsubishi Heavy Industries;
- Project management consultancy for N-Butane project at MTBE Malaysia Sdn Bhd, Kuantan;
- Boiler piping revamp for YTL Paka Power Plant;
- Design of gas supply skid for Muda Paper, Kajang;
- Design of chimneys for auxiliary boilers at CUF, Kuantan;
- Supply and upgrading of hangers for fired heaters at MTBE Malaysia Sdn. Bhd., Kuantan;
- Project management consultancy for Furnace Upgrading in New Tank Farm Equipment / Piping installation, at Kemaman Bitumen Company; and
- Project management and consultancy for Plant Sustainability project for Hunstman-Tioxide, Telok Kalong.

At V2 Care, we place high importance on the value of Human Resource capital, and are dedicated to designing training programmes and providing training to enhance the skills and knowledge of our client's personnel. Our team of qualified and highly experienced trainers have been involved in a multitude of training programmes, which include :

- Training on Project Management in various locations in Malaysia and Brunei;
- In-house training and on-the-job coaching for Certification of Steam Engineers at Petronas Gas Berhad, Kertih and W.R.Grace, Kuantan;
- Public training on " Design, Operation and Maintenance of Boilers";
- In-house training on Process Piping, at Aldwich, Telok Kalong and MTBE Malaysia Sdn Bhd, Kuantan;
- In-house training on Process Equipment: Centrifugal Pump, at MTBE Malaysia Sdn Bhd, Kuantan;
- In-house training on Process Equipment: Centrifugal Compressor, at MTBE Malaysia, Sdn Bhd, Kuantan;
- Training on Process Technology; and
- Training on Boilers for members of Malaysian Steam and Internal Combustion Engine Engineers Association.

Trainers

Tharmaseelan Thanabalasingam

Ir Tharmaseelan Thanabalasingam graduated with a Bachelor of Engineering (Mechanical) from University Malaya and is a qualified professional engineer registered with Board of Engineers Malaysia. He is also a certified 1st Grade Steam Engineer and a certified trainer with Human Resource Development Fund, Malaysia. He has been providing consultancy, project management and field services focusing in petrochemical and power generation sectors while managing technical and contractual matters for large scale multi-discipline, green field as well as revamp projects. With his extensive experience in the field for approximately 30 years, Tharmaseelan who has been working with clients such as Petronas, Huntsman-Tioxide, MTBE, UBF, TNB and Shell, is also an expert in design, inspection and maintenance of steam boilers, pressure vessels and piping, and mechanical integrity of pressure containment systems. He has also been actively providing industry trainings in boiler and piping systems. Additionally, Tharmaseelan is an avid windsurfer and sailing enthusiast.



Abu Sapien Suhaimi

Abu Sapien Suhaimi holds a Bachelor's Degree in Computer Science from University Sains Malaysia and has a Masters in Business Administration from University Utara Malaysia. He is also a certified Project Management Professional with Project Management Institute, USA and a certified trainer with Human Resource Development Fund, Malaysia. Abu has 27 years of experience with companies such as Eastman Chemical, Petronas, Golden Hope Plantation and Jabatan Agama Islam Brunei Darussalam, with expertise in managing ICT resources and planning, manufacturing activities and plant shut down forecasting. Abu has also been involved in designing of network integration and preparation of user acceptance test and training manuals. His specialisations in consultancy and project management has seen Abu provide extensive training in areas such as project management, risk management, cost management and project leadership. Additionally, he is a certified fibre optics installer and a certified network administrator.



Vigneswaran Kumaran

Vigneswaran Kumaran is a Bachelor of Engineering (Chemical) graduate from University Malaya, has a Masters in Energy Studies from University of Melbourne and is a certified trainer with Human Resource Development Fund, Malaysia. He has 18 years of experience in petrochemical process operations and has served Petronas as a process plant operations and technology specialist while also providing technical consultancy and process technology and equipment trainings for industry patrons. Vigneswaran also served as project management consultant for Bechtel International Inc. and as process advisor for HMC Polymers, Thailand. His specializations include catalytic dehydrogenation/hydrogenation, plant construction, pre-commissioning and commissioning, training, operations and process technology related tasks and has been providing numerous process operation trainings in the field. Furthermore, Vigneswaran is a certified Neuro Linguistic Programming Master Practitioner, a Time Line Therapy Master Practitioner and a Certified Hypnotherapist.



Empowering through Experience

Programmes

Training On Steam Boilers

DURATION 16 hours

TARGET GROUP

This program is for those who are already in the boiler operation / maintenance and need to enhance their knowledge on boiler safeguarding and performance enhancement. Some personnel may go to sit for the Steam Engineer or Boilerman Certification by Department of Occupational Safety & Health (DOSH).

TARGETED INDUSTRIES

Power Plants, Oil, Gas & Petrochemical, Palm Oil & Oleochemical, Most Types Manufacturing Facilities, Hospitals, Hotels.

COURSE OBJECTIVE

This training activity is for those individuals who are already maintaining and operating boilers and want to enhance their skills and may choose to sit for the Steam Engineers/Boilerman Certification by DOSH.

Steam Boilers

COURSE OUTLINE

1. Introduction & Course Objectives
2. Operations & Maintenance Guidelines
3. Key Elements of ASME Section 1 – Rules for Construction of Power Boilers.
4. Key Elements of BS 2790 – Fire Tube Boilers
5. Key Elements of BS 1113 – Water Tube Boilers
6. Factories and Machinery Act
7. Boiler Manufacturing
8. Pressure Part Inspection
9. Metallurgy of Boilers
10. Basics of Welding
11. Piping
12. Failure and Repair of Boilers.



Process Piping

DURATION 16 hours

TARGET GROUP

This program is for technicians, engineers and senior engineers who operate and maintain piping systems within their manufacturing facilities. It also applies to personnel involved in construction, inspection and commissioning of piping systems. These include pressurized, high temperature and cryogenic service piping.

TARGETED INDUSTRIES

Power Plants, Oil, Gas & Petrochemical, Palm Oil & Oleochemical, Most Types Manufacturing Facilities.

COURSE OBJECTIVE

This training activity is for those individuals who are constructing, inspecting, maintaining and operating pressurized, high temperature and cryogenic service piping systems and want to enhance their skills. This knowledge will translate in ensuring integrity of the piping system.

Training On Process Piping

COURSE OUTLINE

1. Introduction & Objectives
2. Review of Your Pipe Specification
3. ASME B31 Basic Requirements
4. Review Elements of Piping Specifications
5. Specification for Flanges
6. Specification for Fittings
7. Specification for Gaskets
8. Specification for Bolting
9. Specification for Valves



Cost Management

Training On Project Cost Management

DURATION 24 hours

TARGET GROUP

Participants with an interest in the principles of project management; trainee project managers; consultants who routinely engage in project management; experienced project managers who wish to refresh their thinking on the principles of project management; program managers and senior managers who employ or manage project managers; participants seeking to sit for the Project Management Institute's Project Management Professional (PMP®) exam.

TARGETED INDUSTRIES

Information Technology & Computers, Construction, Consulting, Education, Engineering, Government, Healthcare, Hospitality, Hospitals, Manufacturing, Oil and Gas, Plantation, Contract / Legal Project Administrators.

COURSE OBJECTIVE

This training activity is for those individuals who are already in the field of project management and want to enhance their skills as well as may sit for the PMP® certification examination.

COURSE OUTLINE

1. Using Work Breakdown Structure
2. Cost management
3. Resource planning
4. Cost estimation
5. Cost budgeting
6. Developing a resource plan and estimating costs
7. Work estimation
8. Defining the work estimate
9. Estimating work
10. Project Estimating Methods
11. Analogous Estimating
12. Bottom up estimating
13. Simple moving average
14. Three point method weighing average
15. High Low Methods
16. Parametric estimating
17. Low diminishing of Return
18. Errors in estimating Cost Estimating Methods
19. Project Justification and Evaluation and selection methods
20. NPV, Future Value, Current Value, Annuity, Monthly Payment Annuity
21. Break Even Analysis
22. Internal Rate of Return
23. Cash Flow Management
24. Progress Reporting
25. Percentage Complete
26. Earned Value Analysis
27. Project Performance Measure
28. The risk-management process
29. Establishing a realistic budget contingency

Microsoft Project

Training On Microsoft Project and Advanced

DURATION 16 hours

TARGET GROUP

This course is designed for career project managers and those professionals for whom project management is an integral part of their daily jobs, and who have a vested interest in improving the effectiveness of project management and the success of projects – often under complex or difficult circumstances. This audience has experience managing projects, but is looking to enhance its project management skills and its ability to handle more concurrent projects or to manage larger and more complex projects.

TARGETED INDUSTRIES

Information Technology & Computers, Construction, Consulting, Education, Engineering, Government, Healthcare, Hospitality, Hospitals, Manufacturing, Oil and Gas, Plantation, Contract / Legal Project Administrators.

COURSE OBJECTIVE

Project management methodology is quickly becoming the method of management for more and more industries. Hands-on exercises with Microsoft will demonstrate effective and easy-to-implement techniques to better plan schedule and allocate resources. The goal of this course is to enable project managers to increase their productivity, which means they have more time to stay on top of the critical project management tasks that increase the chances of project success.

COURSE OUTLINE

Beginner & Intermediate (2 days)

1. Introduction to MS Project
2. Task creation and scheduling
3. Scheduling Tasks
4. Using task views
5. Formatting and Sharing information
6. Managing Resources and Costs
7. Finalizing the Plan
8. Tracking
9. Analyze and adjust a schedule
10. Filters and sort
11. Manage multiple projects
12. Exchange project data

Advanced (2 days)

1. Custom Filters and Groups
2. Custom Calculated Fields
3. Custom Tables and Views
4. Forms
5. Budgeting Resources
6. Managing Resources and Costs
7. Finalising the Plan
8. Tracking
9. Analyse and adjust a schedule
10. Filters and sort
11. Visual reporting
12. PERT Analysis
13. Analyse Project Data using Excel
14. Macro Features
15. Manage multiple projects
16. Exchange project data
17. Case Study

Centrifugal Compressor

Training On Process Equipment - Centrifugal Compressor

DURATION 20 hours

TARGET GROUP

Junior and Senior Engineers with Chemical, Mechanical, Electrical & Instrumentation background; Senior Technicians; Managers with Technical Background.

TARGETED INDUSTRIES

Petrochemical, Oil & Gas, Facility and Services

COURSE OBJECTIVE

To enable participants to understand fundamentals of Centrifugal Compressor design, selection and sizing of compressors with application of thermodynamic correlations to online performance monitoring.

COURSE OUTLINE

1. Introduction of Compressor Types
2. Centrifugal Compressor Components
3. General Terms in Compressor System
4. Basic Thermodynamics
5. Compressor Similarity Laws
6. Performance Curve
7. Compressor Datasheet (Process)
8. Sizing of Single Stage Centrifugal Compressor
9. Surge & Choke in Process
10. Compressor Performance Monitoring



Centrifugal Pump

Training On Process Equipment - Centrifugal Pump

DURATION 20 hours

TARGET GROUP

Junior and Senior Engineers with Chemical, Mechanical, Electrical & Instrumentation background; Senior Technicians; Managers with Technical Background.

TARGETED INDUSTRIES

Power Plants, Oil, Gas & Petrochemical, Palm Oil & Oleochemical, Most Types Manufacturing Facilities, Hospitals, Hotels.

COURSE OBJECTIVE

To enable participants to understand fundamentals of Centrifugal Pump design, selection and application with special attention to process hydraulics details.

COURSE OUTLINE

1. Pump Types
2. Centrifugal Pump Components
3. General Terms in Pumping System
4. Pump Laws & Basic Concepts
5. General Pump Design – Performance/Characteristic Curve
6. System Curve & Hydraulics - Application
7. Pump Sizing & Datasheet
8. Pump Protection Flow & Cavitation
9. Process Plant Typical Pump Issues



Capacity enhancement with V2 Care cuts across various sectors and focus areas, comprehensively delivered with commitment and competence as we believe in **Empowering through Experience!**

Our focus areas include :

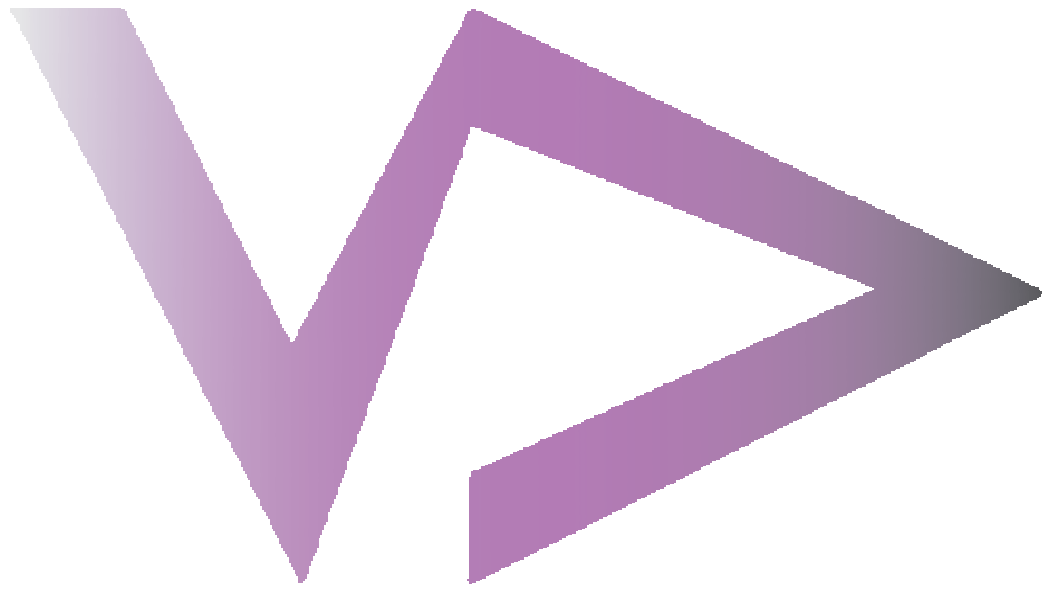
Feasibility Studies
Front End Engineering
Engineering, Procurement, Construction & Commissioning
Project Management - Technical & Resources
Project Management - Contractual & Commercial
Asset Integrity
Reliability & Performance Enhancement
Maintenance Planning & Execution
Plant Turnaround
Boiler Systems
Fired Heaters
Heat Exchangers
Pumps
Compressors
Process Piping
Power Piping
Process Mass & Energy Balance
Pipe Support System - High Temperature Piping
Pressure Relief & Emergency Depressurizing
Environmental Management

Speak to us!

V2 Care is experienced with a pool of expertise to provide customised capacity development programmes to meet your organisation needs, catering for all levels of staff from non-executive personnel, technicians, supervisors and engineers to management staff of every level.

We look forward to hearing from you about our **coaching & mentoring** opportunities for targeted results, **in-house training and development** programmes to meet your organisational objectives or our **public programmes** to enhance personnel performance.

Get in touch with us at seelan@v2care.com.my / enquiry@v2care.com.my further information or to discuss about our comprehensive training and development programmes and your training needs! Visit www.v2care.com.my for further information.



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