

ENERGY1 Asia - Virtual instructor-led Training (Online)

Due to the recent developments with COVID-19 we have, for the health and safety of our speakers and attendees, our selected multi-day courses will be delivered live online led by experience practitioners. This will enable you to experience a similar engagement experience to our successful traditional classroom setting which includes exercises, answering your question and provide feedback – all without having to travel anywhere!

Creating Effective Equipment BOMs and Auditing the Quality of Existing BOMs

Learn the best practices on how to build new BOMs & Audit the effectiveness of existing BOMs.

18th – 19th May 2022 | 12:30 – 17:00 (GMT+8) ONLINE Virtual instructor-led Training

Funct_Loc	Funct_Loc_Desc	Asset_No	BOM_Id
JD-0-AE-0-VAC-0015880	VACUUM PUMP 1 - X608		
JD-0-AE-0-VAC-0017200	CHECK VALVE PUMP 1 - X608		
JD-0-AE-0-VAC-0017410	SOLENOID VALVE PUMP 1 - X608		
JD-0-AE-0-VAC-0025880	VACUUM PUMP 2 - X608		
JD-0-AE-0-VAC-0027200	CHECK VALVE PUMP 2 - X608		
JD-0-AE-0-VAC-0027410	SOLENOID VALVE PUMP 2 - X608		
JD-0-AE-1-116-0004140-00005880	VACUUM PUMP 1		
JD-0-AE-1-116-0004140-00015880	VACUUM PUMP 2		
JD-0-AE-1-ST1-0005970	DOSING PUMP ASSEMBLY - STI601		
JD-0-AE-1-ST1-XX05880	H2O2 DRAGER PUMPS - STI601		
JD-0-AE-1-ST2-0005970	DOSING PUMP ASSEMBLY - STI602		
JD-0-AE-1-ST2-XX05880	H2O2 DRAGER PUMPS - STI602		
JD-0-AE-1-X5A-0006060	VACUUM PUMP (LIQUID RING) - X605A		
JD-0-AE-1-X5A-XX07110-00167110	ACT VALVE. PLANT WATER TO VACUUM PUMP		
JD-0-AE-1-X5A-XX17110-00027110	PCV. PLANT WATER TO VACUUM PUMP		
JD-0-AE-1-X5B-0006060	VACUUM PUMP (LIQUID RING) - X605B		
JD-0-AE-1-X5B-XX07110-00167110	ACT VALVE. PLANT WATER TO VACUUM PUMP		
JD-0-AE-1-X5B-XX17110-00027110	PCV. PLANT WATER TO VACUUM PUMP		
JD-0-AE-2-D04-0005880	HYDRAULIC PUMP - DH635		
JD-0-AE-R-H11-0005880	HEAT RECOVERY PUMP - AHU601		
JD-0-AE-R-H11-0007500-00005880	PRESSURISATION UNIT PUMP - AHU601		
JD-0-AQ-0-FAL-0076840	LADDER - BY CHW PUMPS		
JD-0-AQ-1-H43-0005880	PUMP P8038		
JD-0-AS-2-T04-0005880	B21 HEAT TRANSFR PUMP TCU13603		
JD-0-AS-3-005-0017560-00015880	B21 P001 DISTRIBUTION PUMP X13206		
JD-0-AS-3-005-0017560-00025880	B21 P002 RETURN PUMP X13206		
JD-0-AS-3-005-0027560-00015880	B21 P001 DISTRIBUTION PUMP X13306		
JD-0-AS-3-005-0027560-00025880	B21 P002 RETURN PUMP X13306		
JD-0-AS-3-005-0055640-00015880	B21 P001 SCAVENGE PUMP 713216		

In collaboration:

Creating Effective Equipment BOMs and Auditing the Quality of Existing BOMs (2 Half-Days) Virtual instructor-led Training

BOMs are essential for effective asset management, they allow maintenance to find the right spare in a timely manner and saves them searching the whole inventory data base. Without BOMs maintenance effectiveness is much lower and costly production downtime is increased.

Effective BOMs not only can increased maintenance efficiency, improve maintainers productivity & reduce downtime by identifying the required spare in a timely manner.

Attendees will further improve their practical knowledge on:

- **How to ensure better data from vendors/OEMs (The source Data to Build BOMs)**
- **How to use BOMs for obsolete Management :** Will show how to check all spares used by an obsolete equipment efficiently
- **How to create effective BOMs :** Understand the most effective process to build BOMs
- **Understand the main differences between using Ms Excel and Ms Access**
- **How to Audit Existing BOMs and common issues :** Identify the issues with your current BOMs. This can only be done effectively using MS Access. Once identified you can fix the issues. BOMs can support the obsolete programme. I.E When an equipment is replaced you can check if those parts are used on other equipment and if not can flag as obsolete.

This **2 half-days online virtual instructor led training(VILT)** looks at creating BOMs, their source documents and creating CMMS BOM data upload files. We will show how BOM data from the CMMS is structured and audited and reveal typical findings.

Advance your knowledge and learn about:

- How to create BOMs more effectively
- How to create BOMs in both MS Excel and MS Access
- How to audit existing BOM data held in the CMMS
- What to achieve improved data from vendors
- The importance of part criticality and how to leverage asset criticalities
- How to check all spares used by an obsolete equipment efficiently

I'm using SAP, Maximo and etc. will this be beneficial to me?

Building effective BOMs is the same process whether you use SAP, Maximo, Datastream, JD Edwards, Coswin, etc. BOMs creation can carried out direct within the CMMS, but for major projects are best created outside of the CMMS and uploaded. Auditing existing BOMs is carried out by downloading the BOMS into MS Access. The additional benefits of BOMs that we discuss is done outside of the CMMS.

This virtual training will focus on:

- Getting the right source documentation
- Building BOMs and auditing the BOMs which is carried out outside of the CMMS
- Achieving maximum benefits from BOMs including supporting inventory optimisation and obsolete parts management

This program is intended for:

This course is designed for people who are involved in CMMS data management (SAP, Maximo, Oracle and etc):

- Maintenance planners / engineers and support engineers
- Preventive Maintenance / Equipment Engineers / Spares personnel
- CMMS Engineers / CMMS IT administrators / CMMS planers or anyone who populated data into CMMS Project
- Engineers responsible for setting up the spares information in the CMMS
- Anyone who wants to understand how to achieve an effective CMMS system (same concepts can be used to evaluate Equipment, Assets, PM routines)
- Companies already with a populated CMMS, considering upgrade of their existing system (e.g Maximo to SAP etc) or considering implementing a CMMS will benefit.

Creating Effective Equipment BOMs and Auditing the Quality of Existing BOMs (2 Half-Days) Virtual instructor-led Training

DAY 1

Introduction to BOMs

- The what and why of BOMs including types of BOMs
- Main issues we find with existing BOMs
- Examples of poor BOM Builds
- BOM Best Practices
- What spares to include in the BOM
- Where to start when no BOMs have been created

Processing the Recommended Spare Parts List

- SPIR/RSPL & the Project Phase
- Main issues with this process
- **Exercise processing the SPIR/RSPL**

Creating BOMs in the Project Phase (MS Excel)

- **Exercise creating the BOM in MS Excel**

Building BOMs Using MS Access

- Prerequisites, asset make, models & size
- BOM table structure
(BOM Ids, Asset To BOM Id, Spares By BOM Id, Asset Table)
- Hands-on; Building BOMs in Ms Access

DAY 2

Building BOM in the Operational Phase

- Issues found in building BOMs in the operational phase
- Source documents

Step by Step BOM Build Process

- Introduction to a 9 step BOM Build Process (Based on MS Access)

How to Audit Existing BOMs Using MS Access

- How to structure the BOM data download
- Building the SQL to identify
 - Spares not linked to a BOM
 - Equipment with No BOMs
- Identifying inappropriate items linked to BOMs
- Identifying similar equipment with different number of attached spares
- Form views using main and sub forms (provided in the sample database)
- Hand on practice using MS Access

How to use BOMs for obsolete Management

Using BOMs to Assign Part Criticality

- Why part criticalities are important
- The process to assign part criticality from asset criticalities (demonstration only)

Designing an Improved SPIR/RSPL Form

- We have discussed the difficulties with most existing BOMs
- What should the Excel BOM look like?

Online Exercises and Case Studies:

Having the ability to implement directly once you are back at your workplace is crucial for every participant. During the 2 half days online training, mini excersies and case studies will be share.

Delegates will be able to immediately apply the knowledge gained in the training.

A mix of provided templates and templates the delegates will create during the class.

BOMs Exerscies:

- View/Explore Recommended Spare Parts List as received
- Prepare Spare Parts List for import to master spare list (Weir Pump List)
- Prepare Spare Parts List for Gearbox (Allen gearbox)
- Build Weir Pump BOM in MS Excel
- Build Allen Gearbox BOM in MS Excel
- Build Weir Pump BOM in MS Access
- Build Allen Gearbox BOM in MS Access
- Audit BOM Download using MS Access identify Equipment with No BOM created
- Audit BOM Download using MS Access identify Spares not linked to a BOM
- Identify Obsolete Parts

Creating Effective Equipment BOMs and Auditing the Quality of Existing BOMs (2 Half-Days) Virtual instructor-led Training (VILT) Registration Form

Creating Effective Equipment BOMs and Auditing the Quality of Existing BOMs	Per Participant	PROGRAM DETAILS ONLINE Virtual instructor-led Training Date: 18 th – 19 th May 2022 Time: 12:30 – 17:00 (GMT+8)
Full 2 Half-Days	USD 999 ()	STEPS TO REGISTER: Simply fill up the registration form and email it to: Email to : registration@petro1.com.my Call us : +603 7727 3952 Mobile /Whatsapp: +6012 568 4696 (Harn)
<ul style="list-style-type: none"> The above investment fee is inclusive of course material. This course is limited to 15 attendees to ensure that the course can remain interactive. Please note the Online Virtual Instructor Led Training (VILT) time zone will be as "Malaysia / Singapore" time zone (GMT+8). 		
<p>If you or your company is facing travel restrictions, we may be able to arrange the training at your preferred location for remote participation or conduct the training in-house with minimum 10 pax. Please contact ihtraining@petro1.com.my to discuss this possibility.</p>		

Delegates Details

1. Name: _____ Mr Mrs Ms Dr

Job Title: _____

Email : _____

Contact No: _____

Department: _____

2. Name: _____ Mr Mrs Ms Dr

Job Title: _____

Email : _____

Contact No: _____

Department: _____

3. Name: _____ Mr Mrs Ms Dr

Job Title: _____

Email : _____

Contact No: _____

Department: _____

Head of Department: _____

Invoice Details

Invoice Attention to: _____

Company: _____

Industry: _____

Address: _____

Postcode: _____ Country: _____

Telephone: _____ Fax: _____

Email: _____

Authorized Signature : _____

Payment Method

By Direct Transfer: Please quote invoice numbers on remittance advice.

ACCOUNT NAME : PETRO1 SDN BHD

BANK : United Overseas Bank (Malaysia) BHD

ACCOUNT NO : 2609008514 (USD)

All bank charges to be borne by payers. Please ensure that PETRO1 SDN BHD received the full invoice amount.

CREDIT CARD PAYMENT

Credit card payment will include a charge 3.1%.

Payment Policy: Upon receipt of a completed registration form, it confirms that the organization is registering for the seat(s) of the participant(s) to attend the conference or training workshop. Payment is required with registration and must be received prior to the event to guarantee the seat. Payment has to be received 7 working days prior to the event date to confirm registration.

DATA PROTECTION

The information you provide will be safeguarded by Petro1 that may be used to keep you informed of relevant products and services. We take it seriously when it comes to protection of our client data.

Sales and service Tax (SST):

Apply to Malaysia register company only.

The above investment fee is excluding of SST 6%. The SST charges of 6% will be include during issuance of the invoices.

Cancellation & Substitutions:

Should you be unable to attend, substitutes are always welcome anytime at no additional cost. Please inform us as early as possible. Payment is non-refundable if cancellation occurs 7 working days prior to event commencement. However, delegates will receive a 100% credit on the amount paid which can be used in another PETRO1 SDN BHD training course for up to one year from the date of issuance. The credit is transferable to other persons in the same company and applicable against any future PETRO1 SDN BHD public course/ Online Live Webinar. If cancellation occurs 7 working days prior to the registration date and there is no substitute, the organizer reserves the right to charge 50% of the total investment from your organization.

In the event that, PETRO1 SDN BHD, postpones or cancels a course, delegate payments at the date of cancellation or postponement will be credited to a future PETRO1 SDN BHD course. This credit will be available for up to one year from the date of issuance, and it is transferable to other persons in the same company and applicable against any future PETRO1 SDN BHD public course.

PETRO1 SDN BHD is not responsible for any loss or damage as a result of a substitution, alteration or cancellation/postponement of an event. PETRO1 SDN BHD shall assume no liability whatsoever in the event this training course is cancelled, rescheduled or postponed due to a fortuitous event, Act of God, war, fire, labor strike, extreme weather or other emergency.

Program Change policy:

The organizer reserves the right to make any amendments and/or changes to the webinar, Date/ time, facilitator replacements and/or modules if warranted by circumstances beyond its control.

This course information may not be copied, photocopied, reproduced, translated, or converted to any electronic or machine-readable form in whole or in part without prior written approval of PETRO1 SDN BHD.