



BII WORLD
Engage • Enlighten • Empower



Herramientas de Confiabilidad para Optimizar el Mantenimiento (FMECA, RCM & RCA)



Entrenamiento en Línea en
Tiempo Real



24 Horas de Sesiones Interacti-
vas en Vivo



Certificado de Validación de
Aprendizaje Continuo



Kit de Aprendizaje Integral

16 – 20 October 2023

10:00 - 15:00 Mexico Time

11:00 - 16:00 Peru Time

12:00 - 17:00 Chile Time

 www.biiworld.com



Facilitador: **ALEXIS LÁREZ**

Certificado Profesional Mantto y Confiabilidad /
Auditor Líder de Sistemas de gestión
(ISO 55001 / ISO 9001)

Premios “European Maintenance Manager Award” 22-23 (EFMNS)/ Premio Español “Maintenance Manager 2020” (AEM).

Actualmente Doctorando (UCAM), Ingeniero Mecánico con más 25 años de experiencia en la industria y competencias en Gestión de Activos (ISO 55001), Gestión del Mantenimiento y Confiabilidad Operacional, Implementación en la industria de metodología de confiabilidad tales como: Análisis de Criticidad, FMECA, ACR, RCM, PMO, RAM, LCC. Optimización de las estrategias de mantenimiento.

Consultor Senior y Auditor en Sistemas de Gestión de activos (ISO 55.001), mantenimiento y confiabilidad. Ha desarrollado proyectos de consultoría alineados a la ISO 55001, en como: UBE corporation Europe, Europastry, Industria Vidriera de Coahuila, empresas Pluspetrol (Perú), Kallpa Generación(Perú), EPSA(Colombia), AES Argentina, AES Chile, BG Bolivia.

Ha participado como auditor líder en el proceso de certificación del Sistema de Gestión de activos bajo la ISO 55001 de las empresas: AES Argentina y PGI, SPain (Berry Plastic, Tarragona).

Director y profesor del Master de Confiabilidad y Riesgo, profesor en el master de Gestión de activos y en el postgrado de Mantenimiento y overhaul.

Ha dictado formación en Company en empresas como: Engie, Ferrocarriles de Barcelona, Repsol, Canal de Panamá, EPSA, Minera Cerrejón, Minera San Cristobal, AES Chile, AES Argentina y Soboce. Adicionalmente ha sido instructor en cursos abiertos asociado a la Gestión de Activos, mantenimiento y Confiabilidad en países como: Perú, Bolivia, México, Panamá, Chile, Argentina y Venezuela.



FORMACION ACADEMICA

1. Doctorado en tecnología de Computación e Ingeniería Ambiental/ Universidad Católica de Murcia. En Curso.
2. Master en Habilidades Directivas / Universitat de Valencia, 2016
3. Master en administración y gestión avanzada de proyectos / Universidad Católica de Murcia, 2015
4. Postgrado en Web Marketing y Posicionamiento on line / Universitat de Valencia, 2015
5. Master en Gestión de Activos / PMM, 2012
6. Postgrado en Gestión de Activos y Confiabilidad / Universitat de Valencia – PMM, 2011
7. Postgrado en Gestión del Mantenimiento / UNEXPO, 2004
8. Diplomado en Gestión de Operaciones, ITESM, 2001
9. Ingeniero Mecánico / UNEXPO, 1998

CERTIFICACIONES PROFESIONALES

1. Profesional Certificado en Mantenimiento y Confiabilidad (CMRP): The Society for Maintenance & Reliability Professionals (SMRP) No. 201220244, 2013-2019
2. Auditor Líder de Sistemas de gestión Activos, SGS/ IRCA N°. 40044976 / 128202987.



BENEFITS:

Los profesionales que participan en esta capacitación lograrán la comprensión y la aplicación de diferentes herramientas de confiabilidad para la optimización del mantenimiento de equipos industriales, adecuado al contexto de la organización y su impacto en los costos.

MATERIAL:

- Presentación en digital
- Normas digital

OBJETIVOS:

- Comprender el impacto de una correcta implementación de herramientas de confiabilidad en los costos de mantenimiento.
- Revisar las metodologías de confiabilidad y su aplicación apropiada en la industria.
- Aprender las metodologías de AMEFC y RCM para optimizar los planes de mantenimiento
- Desarrollar las habilidades necesarias para resolver los problemas de la industria utilizando Análisis Causa Raíz (ACR)
- Implemente herramientas de confiabilidad basadas en normas internacionales actuales (UNE 60812-UNE 60300-11-UNE 62740)

DIRIGIDO A:

- Gerentes
- Responsables
- Superintendentes
- Supervisores
- ingenieros del área de mantenimiento y operaciones
- planificadores y programadores de mantenimiento
- técnicos de mantenimiento
- especialistas de Ingeniería de mantenimiento
- consultores, etc.



PROGRAMA:

Day 1

Generalidades de la Gestión del Mantenimiento

- Definiciones y terminologías de mantenimiento de activos (ISO 14224)
- Evolución de la gestión del mantenimiento de activos
- Estándares asociados con la gestión del mantenimiento de activos.

Herramientas de Fiabilidad

- Análisis de Críticidad

Generalidades del análisis de criticidad.

- Objetivos y beneficios.
- Conceptos básicos.
- Equipos de trabajo natural.
- Metodologías de análisis de criticidad
- (Norsok-Zoo8 y Plantillas ponderadas)

Day 2

Optimización de los Planes de Mantenimiento

- Análisis de Modo y Efecto de Fallos y Criticidad (AMEFC/AMEF) (UNE 60812)
- Metodología del análisis de modo y efecto de la falla de AMEF
- Proceso de análisis de AMEF
- Número de prioridad de riesgo (NPR), utilidad y escalas.
- Causas de fallas y efectos de la falla.
- Identificación de efectos locales y de falla de sistemas.
- Métodos de detección.
- Clasificación de la gravedad.



Day 3

Mantenimiento centrado en fiabilidad (SAE-JA1011-1012)

Desarrollo de la metodología

- Determinar las funciones de los activos.
- Definir fallas funcionales
- Determinar modos de falla de acuerdo con ISO 14224
- Determinar el impacto o efecto de fallas dentro de sistemas críticos
- Aplicación del árbol de decisión RCM
- Seleccionar tareas de mantenimiento
- Consolidar las tareas de mantenimiento.

Day 4 and Day 5

Análisis Causa Raíz. (ACR-UNE 62740)

- Identificación de problemas o fallas.
- Formación del equipo de trabajo multidisciplinar.
- Definición de problemas
- Recolección de datos para el análisis de causa raíz
- Aplicación de las 5 P
- Desarrollo de la línea de tiempo
- Desarrollo de árboles de fallas lógicas.
- Definición de modos de falla y su evidencia física (¿Cómo puede suceder?).
- Definición y validación de hipótesis (¿Por qué?)
- Definición de las causas raíz: física, humana y latente (organizacional y externa)
- Desarrollo de soluciones y análisis de costo beneficio de las soluciones propuestas (Método de Análisis Costo Riesgo Beneficio)
- Implementación y evaluación de la efectividad de las soluciones.



Does BII Online Virtual Training have the same value as traditional classroom training?

Yes, BII Online Virtual Training offers participants; same training system as in-person, i.e face-to-face engagement with instructors, course material, interactive participation of all delegates, and personal support that they would expect to find in a traditional classroom.

What are main features of your online courses? Are they on-demand? Is it different content from the in-person offering?

The content of the virtual training is similar to the in-person sessions and customized presentation makes it a richer online learning experience. As always, we will share presentation materials with attendees for later reference.

The online courses are not on-demand and recordings cannot be purchased. They are set on scheduled dates, live with an instructor and co-host via webinar software. While the day is shorter than an in-person session (4hrs vs 8hrs), timing are adjusted to accommodate attendees in different time zones and allow more time for one-on-one conversations via the Q & A.

What are the technical requirements for participation in a virtual course?

All you need to participate in virtual training are:

- Desktop or Laptop or Tablet Computer, and Internet connection
- Webcam
- Headset with built-in microphone

Can I attend an online training session if I have a Macintosh computer?

Yes, Our Online training systems does allow Macintosh computers, PCs, and computers running Linux to easily enter any of our online training sessions.

What type and version of browser will I need for online classes?

It is recommended that you use the latest version of Firefox, Chrome or Internet Explorer for Windows and Firefox or Safari for Mac. Each of these is available for free download and also suggested you have the PDF Reader

How do I have access to the trainer for questions?

As in the classroom, you will see the trainer in front of you and have the opportunity to ask questions at any time - all via audio and video transmission.

Is there a mute option within an online training session to minimize background noise from my audio connection?

Yes, the Mute button will display to the right of your name as you hover your mouse over your name shown in the Participants panel on the top, right side of the Web conferencing screen.

What if I miss few sessions of the online training program?

The training will be simultaneously recorded which will be provided to you as per request & requirement

Do I get a Certificate at the end?

Yes, you will get a PDF version of your certificate of completion



Please complete this form and send it back to:
E-mail to: mithun.siddartha@biworld.com

Event Code: OL TE 64

Delegate Details

- Name: Mr/Mrs/ Ms
.....
Job Title:
Email:
- Name: Mr/Mrs/ Ms
.....
Job Title:
Email:
- Name: Mr/Mrs/ Ms
.....
Job Title:
Email:

Payment Details

METHOD: CREDIT CARD OR WIRE TRANSFER

Please debit my

Visa Eurocard /Mastercard Amex Diners club

Card Billing Address:.....

Street:City:.....

Zip/Postal:

Card Holders Name:

Email Address:

Card Holders Signature:

Card Number

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Credit Card CVV2/ CVC / CID Number:

Visa / Mastercard Amex (4-digit code on the front)
 (3-digit code on the back)

Valid from: / Expiry Date: /

I agree to BII debiting my card

Company/Organisation Detail

Name:
Person to Contact:.....
Email:
Address:
.....
City:
Country:
Contact No:
Type of Business:
Website:

Authorization and Acceptance of Sales Contract & Terms & Conditions

I hereby declare I am authorised to sign this contract and terms & conditions in the name of the company/organisation:

Name:.....

Date:.....

Signature:.....

1 Delegate Fee USD 1099 Per Delegate

(Delegate Fee is inclusive of Certification Fee of USD 150)

20 USD administration charge and any applicable withholding or any other tax or fee will be applied

TERMS & CONDITIONS:

1. Payment terms: BII World LTD requires the full payment of the invoiced amount within 7 working days from the issue date of the invoice. BII World LTD reserves the right to refuse entry to any client who does not pay the invoice in full and on time. The registration fee includes: Training documentation and admission to all training sessions.

2. Cancellation by client: The client has the right to cancel his/her participation in the event. Cancellation must be received by BII World LTD in writing either by mail or fax. If the client cancels the event, he/she will get two options:

A. CREDIT NOTE: Choose 2-year credit note, BII World LTD will send all the schedule training event details throughout the year. Delegate has the right to choose and attend any of the training programs (valid 2 years).

B. NOMINATION: In this option delegate can nominate/refer someone from his/her group/company to attend the particular training program on behalf of the actual delegate.

3. Cancellation by BII World LTD : While every reasonable effort is made to adhere to the advertised program, circumstances can arise which may cause changes in the program, including but not limited to changes in the content, date(s), or special features of the planned event. Such circumstances include but are not limited to acts of terrorism, war, extreme weather conditions, compliance with government requests, orders and legal requirements, failure of third-party suppliers to timely deliver, and failure to register the minimum target number of attendees for a given event. BII World LTD reserves the right to change the content, date(s), and/ or special features of an event, to merge the event with another event, or to postpone it or cancel it entirely as appropriate under the circumstances. Client agrees that BII World LTD shall not be liable for any cost, damage or expense which may be incurred by client as a consequence of the event being so changed, merged, postponed or cancelled and client agrees to hold BII World LTD harmless and to indemnify BII World LTD in case of liability caused by any such changes, mergers, postponements or cancellations.

4. Cancellation of the event: In case BII World LTD cancels an event, then client can choose any of the below mentioned options:

- BII World LTD will refund full payment to the client within 15 business days.
- Client can choose the credit option for 2 years, for more details please read term no-2 part (a)

5. Postponement of the event : In case BII World Ltd postpones the event to a new date, then client can choose any of the below mentioned options.

- The client can attend the course on the postponed dates.
- Client can choose the credit option for 2 years, for more details please read term no-2 part (a)

6. Client's identification information. By signing of this sales contract and these terms and conditions the client gives full right to BII World LTD to share the client's identification information, i.e. client's name, address, email addresses, phone numbers and names of representatives and website with other clients who participated in the same event. The client has the right to opt out of this clause by written notice to BII World LTD.

7. Governing law: This contract shall be governed by and construed in accordance with the laws of the Province of Alberta, Canada. Any disputes arising under or in connection with this registration form shall be settled before the competent court in Canada.

8. Indemnification: To the fullest extent permitted by the law, you agree to protect, indemnify, defend and hold harmless BII World LTD, its owners, managers, partners, subsidiaries, affiliates, officers, directors, employees and agents, from and against any and all claims, losses or damages to persons or property, governmental charges or fines, penalties, and costs (including reasonable attorney's fees) (collectively "the Claims"), in any way arising out of or relating to the event that is the subject of this contract, and regardless of negligence, included but not limited to, Claims arising out of the negligence, gross negligence or intentional misconduct of BII World LTD employees, agents, contractors, and attendees; provided, however, that nothing in this indemnification shall require you to indemnify BII World LTD Indemnified parties for that portion of any Claim arising out of the sole negligence, gross negligence or intentional misconduct of the BII World LTD parties.

9. Other currencies. In case that client requests payment in other than official currency (USD), BII World LTD reserves the right to apply 5% currency risk surcharge to the actual exchange rate.

10. Other Conditions: Any terms or conditions contained in the client's acceptance which contradict or are different from the terms and conditions of this registration document shall not become part of the contract unless individually negotiated with BII World LTD and expressly accepted by BII World LTD.