

Understanding ACoP SS667: 2020 Code of Practice for handling, storage and processing of combustible dust.



Level 2: Combustible Dust Hazard Competent Person Course -3rd Run

UTAP Funding Only

Supported by:



MINISTRY OF
MANPOWER



Tripartite Alliance for
Workplace Safety and Health

Introduction

Participants will gain awareness of dust hazards, including how to identify and prevent potential hazards. The course will cover proper storage techniques according to requirements, system designs, and safety management systems. Participants will be equipped with the knowledge to effectively implement the requirements of SS667 and other relevant WSH standards when necessary. By the end of the course, participants will also be able to perform Dust Hazard Analysis (DHA) and provide recommendations on prevention and mitigation measures for processes and systems.

Objectives

Main objective of the course is for the participants to understand and implement the requirements of the SS667:2020, which is now an ACoP, on the handling, storage, and processing of combustible dust to prevent and mitigate fires and dust explosions in facilities handling such materials.

Target Audience

For the factory manager, HSE manager and above who need to know exactly what must be put in place before commencing the actual operations; engineers, process designer and competent persons who needs to conduct or advise on dust hazard analysis for process or equipment involving combustible dust.

Pre-requisite to attending this course

Had Completed Understanding ACoP SS667: 2020 Code of Practice for handling, storage and processing of combustible dust - Level 1: Combustible Dust Hazard Awareness Course.

<https://www.ies.org.sg/ccms.r?pageid=6011&tenid=IES&NavCMD=NextPage|2&ROXY=0x000000003fc260b&DISPMODE=Calendar>

Details

Date: 29th July 2024, (Monday)

Time: 9am – 5.30pm

Duration: 7 hours

Delivery Mode: IES Academy @
Jurong East

CPD: 3 STU (Safety)
6 PDU (PEB) (CEng)
7 SDU
To be Confirmed

Course Fee (Include 9% GST):
IES Member: \$381.50
Non-member: \$436.00

**Notes will be E-Copy, do bring
along own Laptop/Tablet.**

Level 2: E-Certificate of Completion will be awarded to **Paid** participants who have completed course survey with **100% Attendance & Pass Assessment**.

IES Academy @ Jurong East
80 Jurong East Street 21, #04-10
Devan Nair Institute for Employment
and Employability
Singapore 609607

Contact Person: Jerine Peh (Ms)
DID: 6460 4237| Main Line: 6463 9211
E-mail: jerine.peh@iesnet.org.sg

Speaker Profile



Mr. Felipe Ong is the Head of Asia Pacific, Industrial Explosion Protection Division with BS&B Safety Systems with vast experience in combustible dust risk management!

He has over 33 years of industrial experiences with the past 20 years focusing on Dust Explosion Prevention & Protection Technologies. His experience covers a wide variety of industry segments including Food & Beverage, Electronics, Automotive, aerospace, Specialty Chemical, Pharmaceutical, Grains, Animal feeds, Olé chemicals, Tobacco, Cement, Sugar, Milk Powder, Wood Products, Pulp & Paper, Petrol Chemical, Oil & Gas & Power Generation Industries.

Felipe travels extensively across Asia Pacific Regions as well as Europe & have extensive knowledge on the latest Codes & Standards, best engineering practices driven by both USA (NFPA) & European Standard (ATEX) as well as China (Chinese GB) & Australia & NZ (AS/NZS). He has conducted many Dusts Explosion Risk Assessment and have assisted several customers in actual incident finding and have provided practical Solution to many of his customers in this area.

He is an active member of IES, IChemE, Society of loss Prevention (SLP, Singapore), and have been conducting many public seminar & trainings for many MNCs, Government institution, Insurance Industries, Fire Departments, Universities, Trade associations, Safety bodies across Asia Pacific rim to promote safety awareness on this topic with many practical case studies as well as offer practical solution to mitigate this risk! He conducts & presents technical papers regularly in trade shows as well & had presented in many International safety congress as well.

Course Schedule

Module 1

DHA (Example)

- Example of Process with Silo.
- Risk Matrix.
- Hazard Identification – Location. (Example)
- Hazard Identification – FMEA
- Hazard Identification – FMCEA (Example)
- Example of DHA which involves an FIBC

Module 2

DHA (Template)

- Contractors, Visitors & Personnel Procedure (check list)
- Housekeeping (Check List)
- Building & Rooms (Check list)
- Dust Collectors with filters media (Check list)
- Cyclone Separator (Check list)
- Bucket Elevator (Check List)
- Size reduction Equipment (Milling) (Check list)
- Dryer (Heated) (Check List)
- Bins & Silos (Check List)
- Enclosure-less Dust Collector (Check List)
- Mixer & Blenders (Check List)
- Flexible Intermediate Bulk Containers (Check List)
- Rigid Intermediate Bulk container (check List)
- Any other equipment vulnerable for Dust explosion risk! (Check List)

Module 3

Explosion Protection Technologies (Passive)

- Design considerations when applying Explosion Venting (Passive) (Case study of successful retrofitting for existing / New Dust Collector system).
- Flame Free Venting technologies (Passive) and its application.
- NFPA68

Module 4

Explosion Protection Technologies (Active)

- Explosion Suppression Technologies & its application.
- Case study for Successful application for retrofitting existing system, and new system installation (Spray Dryer system)
- Spark Detection & Extinguishing System & its application.

Module 5

Understanding Explosion Isolation Technologies & its correct application

- Different Types of Mechanical Isolation & its limitations for use.
- Chemical Isolation Technologies & its limitation for use.
- How to choose the right explosion isolation technology for your application.

Assessment (60min)

50 Multiple Choice Questions

- Minimum PASS: 35/50 (70%)

REGISTRATION FORM

Understanding ACoP SS667: 2020 Code of Practice for handling, storage and processing of combustible dust. Level 2: Combustible Dust Hazard Competent Person Course (3rd Run)

Note: To Completed Level 1: Combustible Dust Hazard Awareness Course (1-Day) before attending this course

Date: 29th Jul 2024 (Monday)

Time: 9am to 5.30pm (7 hours)

Venue: IES Academy@Jurong East 80 Jurong East Street 21, #04-10, Devan Nair Institute For Employment and Employability, Singapore 609607

CPD Programme: 6 PDU (PEB) (CEng) / 7 SDU / 3 STU (Safety) – To be Confirm

Fees (inclusive of 9% GST): IES Member Rate - \$381.50

Non-Member Rate - \$436.00

Registration Closing Date: 19th Jul 2024 (Friday) / Till Class is full (Whichever comes first)

Course Coordinator: (Ms) Jerine Peh | Direct: 6460 4247 | jerine.peh@iesnet.org.sg

Participant's Details				
Name (as per NRIC in BLOCK Letters):		NRIC / FIN:		Gender: M / F
Address (For Invoice):				
		Postal:		Date of Birth:
Mobile:		Contact:		Fax:
Email (For sending confirmation email):				
Company Name:		UEN No:		Designation:
Please indicate:	<input type="checkbox"/> IES Member Membership No:	<input type="checkbox"/> Non-Member	<input type="checkbox"/> PE/RE/RTO/Safety Officer No:	
	<input type="checkbox"/> Tick here if sponsored by company		<input type="checkbox"/> Tick here if Self-Sponsor	
Contact Person (For Company Sponsor Only)				
Name:		Designation:		
Mailing Address (For invoice):		Tel:	Fax:	
Email:				
Payment:			Amount: \$	
<ul style="list-style-type: none">E-Certificate of Completion will be awarded to Paid participants who have completed course survey with 100% Attendance & Pass Assessment.Notes will be E-COPY, do bring along your own Laptop or Tablet. <p>WITH IMMEDIATE EFFECT, WE ARE NO LONGER ACCEPTING PAYMENT VIA CHEQUE. PLEASE ADOPT BANK TRANSFER/PAYNOW/AXS INSTEAD.</p>				
Acceptance of Terms & Conditions for Registration of IES Academy Courses / Events I have read, deemed understood and accept the Terms & Conditions of IES Academy courses and events.				
Name:				
Signature:		Date:		

TERMS & CONDITIONS COURSE REGISTRATION

Registration

Any registration, whether on-line or fax will be on a ***first-come-first-served basis*** and will only be confirmed upon receipt of full payment by IES Academy Pte Ltd unless otherwise invoice to company.

All registrations must be submitted with duly completed registration form.

Closing Date & Payment

The closing date of the event will be 1 week prior to event commencement date or earlier.

Confirmation of Registration

Confirmation of registration will be given at least 1 week before the commencement date via email. ***If you do not receive the said confirmation email, you are required to contact IESA at 6463 9211 during office hours.***

IESA reserves the right to allow only confirmed registrants to attend the Event.

Withdrawals/Refunds of Fees

Written notice ***at least 1 week in advance*** before the commencement of the event

Full course fee shall be refunded subjected to **4.5% transaction charge**.

➤ **NO** refund otherwise.

No show of participant would not be accepted as a valid reason for withdrawal/refund.

One time replacement is allowed only if written notice is received by us at least 1 week before the commencement of the event. However, when an IES member is replaced by a non-member, the participant has to pay the difference in the relevant fees.

Cancellation/Postponement

Changes in Venue, Dates, Time and Speakers for the Events can occur due to unforeseen circumstances. IES reserves the full rights to cancel or postpone the Event under such circumstances without prior reasons. Every effort, however, will be made to inform the participants or contact person of any cancellation or postponement.

Fees will be refunded in FULL if any Event is cancelled by IESA.

UTAP (Union Training Assistance Programme) is an individual skills upgrading account especially for NTUC members. As a member, you enjoy UTAP funding at 50% of the unfunded course fee capped at \$250 every year.

Please visit [here](#) for more information on UTAP claim.

SkillsFuture Credit (SFC) "All Singaporeans aged 25 and above can use their \$500 SkillsFuture Credit from the government to pay for a wide range of approved skills-related courses. Visit the SkillsFuture Credit website (www.skillsfuture.sg/credit) to choose from the courses available on the SkillsFuture Credit course directory."

Please click [here](#) for more information on SFC & UTAP claim.

PERSONAL DATA PROTECTION ACT

I consent to the processing by Institution of Engineers, Singapore of personal data, including sensitive personal data as defined in the Data Protection Act 2014, about me for the proper purposes of Institution of Engineers, Singapore (IES). I undertake to observe the provisions of the Data Protection Act 2014 in relation to any personal data I may myself hold and process as a Members of Institution of Engineers, Singapore, and I agree to indemnify Institution of Engineers, Singapore from liability for any claims or damages that may arise from the processing of this data. For more information kindly refer to: www.ies.org.sg/PDPA.

Enquiries

For further enquiries, please contact IESA general office at Tel: 6463 9211.