

Academy of Concrete Technology presents



# CONCRETE CAMP 2022 : Concrete Testing, Practical Demo



COLMAR TROPICALE, BERJAYA HILLS  
BUKIT TINGGI,  
Pahang

23-25 November  
2022  
3 DAYS 2 NIGHTS

RM 3900



HRD CORP CLAIMABLE

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# PROGRAMME OUTLINE

## DAY 1

TIME	PROGRAMME
11.00 am - 1.00 pm	<p><b><i>The fundamental yet crucial concrete composition –Understand &amp; know them well....</i></b></p> <p><b>1. Aggregates</b></p> <ul style="list-style-type: none"> <li>o Type of aggregate</li> <li>o Importance of grading– size matters</li> <li>o The effects of organic, silt &amp; clay content</li> </ul> <p><b>2. Cement</b></p> <ul style="list-style-type: none"> <li>o The types of cements</li> <li>o Common cements used in the market</li> </ul> <p><b>3. Mineral admixtures</b></p> <ul style="list-style-type: none"> <li>o Silica fume</li> <li>o flash ash</li> <li>o slag</li> <li>o other pozzolanic materials</li> </ul> <p><b>4. Water</b></p> <ul style="list-style-type: none"> <li>o Clean water</li> <li>o Effect of contaminated water</li> </ul> <p><b>5. Fibres (Demo)</b></p> <ul style="list-style-type: none"> <li>o Synthetic</li> <li>o Metallic</li> </ul> <p><b>6. Admixtures type &amp; functions</b></p> <ul style="list-style-type: none"> <li>o Superplasticizer</li> <li>o Retarder</li> <li>o Expanding agent</li> <li>o Waterproofing admixture</li> <li>o etc</li> </ul>
LUNCH 1-2 pm	
2.00 pm - 3.30 pm	<p><b><i>Understand concrete specification &amp; produce concrete that meets international standards</i></b></p> <p><b>1. Concrete requirements specified in EN 206 and MS 523</b></p> <ul style="list-style-type: none"> <li>o Minimum water cement ratio</li> <li>o Minimum cement content</li> </ul> <p><b>2. Understand the definition concrete strength</b></p> <ul style="list-style-type: none"> <li>o characteristic strength, design strength and target mean strength.</li> </ul> <p><b>3. Basic aggregates requirement as per EN 12620</b></p> <p><b>4. Cement requirement as per EN 197 -Cement strength 32.5, 42.5, 52.5</b></p> <p><b>5. Admixtures requirement as per EN 934 -Water reducing power and workability retention</b></p> <p><b>6. Water requirement as per EN 1008- the common test</b></p>
3.30 pm - 5.30 pm	<p><b><i>Advance concrete mix design incorporating</i></b></p> <p><b>1. Silica fume</b></p> <p><b>2. Fly ash</b></p> <p><b>3. Ground granulated blast furnace slag</b></p>
7.00 pm	<b><i>Networking dinner</i></b>

## DAY 2 [HANDS ON]

TIME	PROGRAMME
9.00 am - 12.00 pm	<i>Concrete mix design presentation - Getting the desired mix</i>
LUNCH 12-1 pm	<i>Get your hands dirty; Be the concrete mix master.</i>
1.00 pm - 6.00 pm	<i>1. Concrete mixing session in groups 2. Slump test 3. Concrete cubes making</i>  <i>Special concrete demo</i>  <i>1. High flow concrete 2. Slump flow test 3. Effect of admixtures on concrete mix</i>
7.00 pm	<i>Networking dinner</i>

## DAY 3

9.00 am - 11.00 am	<i>The common and basic concrete tests</i>  <i>1. Compressive strength test 2. Splitting tensile test 3. Flexural strength test 4. Elastic modulus</i>
11.00 am - 1.00 pm	<i>Concrete Defects and solutions.</i>  <i>1. Cracks 2. Honey comb 3. Cold joint etc</i>
LUNCH 1-2 pm	
2.00 pm - 5.00 pm	<i>What's the latest trend on concrete technology</i>  <i>1. Low heat concrete 2. High strength concrete (60 to 100 MPa) 3. Ultra High performance concrete</i>

# EXPERT TRAINER



## Dr. Zack Lim

(Managing Director of Zacklim Flat Floor Specialist)

“Specializing in construction of super flat flooring”

Dr. Zack who is well known as the “Guru of Concrete Floor Cracks” in the Asia flooring circle is a seasoned super flat floor specialist whom passion is to constitute best practices in the construction industry by coalescing both theoretical and hands-on knowledge into work cultures.

Dr. Zack Lim Eng Hock earned his PHD in Civil Engineering at IIC University in year 2018. He also earned his bachelor degree as a production engineer from The City University (London) in year 1981. He worked for 6 years in the construction industry before setting up his own company specialized in building factories and warehouses. Having conducted over 50 seminars and workshops, he was certified as a Trainer by Human Resources Development Fund (HRDF) in July 2016.

Dr. Zack introduced Superflat Floor in Malaysia in year 1998 by importing technology from Australia when he was awarded to build the Nestle Distribution Centre as a main contractor. In year 2000, Zacklim Flat Floor Specialist was incorporated to venture into specializing in the construction of super flat floors which Asia lacks and later having achieved building floors of world class standards. Over 33 years in construction, he has amassed great experience and gained international recognition having constructed industrial flooring jobs in Asia. He has been actively involved in working with and advising young engineers, contractors & ready-mixed suppliers and extolling the virtues of best practices of concrete flooring construction. He was Immediate Past President of American Concrete Institute (ACI) Kuala Lumpur Chapter and had organized seminars, networking sessions to develop the standard of concrete construction and related trades not only in Malaysia but also in Asia.

He is the founding member of Concrete Floors Asia (CFA) consisting 11 international professional members with the objective of delivering best practices in floor construction and to promote world class standard floors in Asia.

He is the Vice President of Concrete Society of Malaysia (CSM) and also a council member of Asian Concrete Construction Institute (ACCI) with objective to foster regional integration for the concrete and construction fraternity and to promote excellence in the industry through pooling of information, seminars, talks and technical visits and also to provide a communication channel for government of the region to solicit advice on construction related matters.

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