

# REGISTRATION FORM

I wish to attend the “**QUARRY ECONOMICS 2019**”  
from 7 - 8 March 2019.

Name: .....

I/C No: .....

Date of Birth: .....

IQM Membership No (if any): .....

Co's Name: .....

Address: .....

.....

.....

Position Held: .....

Telephone: ..... Fax: .....

Email: .....

Enclosed is Cheque / Bank Draft / Money Order

No..... for RM..... payable to

“**Institute of Quarrying Malaysia Bhd**”.

**A/C No: 014187 208342 Maybank**

*(kindly email bank transaction advise)*

PLEASE FORWARD PAYMENT TO:

**INSTITUTE OF QUARRYING MALAYSIA BHD**

No. 23, Jalan Utama 1/7,

Taman Perindustrian Puchong Utama (Puchong Perdana),  
Seksyen 1, 47100 Puchong, Selangor DE, Malaysia.

Tel: 03-8062 4194/5 Fax: 03-8061 8258

Email: admin@iqm.com.my Website: www.iqm.com.my

Date: .....

Signature & Chop

*(Please photocopy the Registration Form if required)*

# GENERAL INFORMATION

## A. Registration Fee

Member : RM 1500.00

Non-Member : RM 1800.00

Government Officers : RM 1500.00

**(HRDF CLAIMABLE)**

This is inclusive of course materials, morning and afternoon tea,  
lunch and transport for site visit.

## B. Course Size

Participation is limited to not more than 30 persons and will  
be based on first-come first-served basis.

## C. Accommodation

You may arrange your accommodation with the following  
hotels:

1) *Sri Puchong Hotel* 03-80623373

2) *Green Hotel* 03-80686666

3) *Four Points By Sheraton Puchong* 03-58918888

## D. Cancellation

A deduction of 50% of the Registration Fee will be  
made being handling charges for cancellation after  
confirmation by phone or facsimile. No refund shall be  
made for cancellation after the closing date of the course.  
A substitute is accepted.

## E. Examination

Participants will be required to sit for a 1 1/2 hours written  
examination upon completion of the course

Exam date : 8 March 2019

Time : 3.30pm - 5.00pm

## F. Closing Date

The closing date for registration is 25 February 2019.

For further information contact: Mdm Nirmala Devi

Tel: 03-8062 4194/5 Fax: 03-8061 8258

*NOTE: Cheque enclosed with the Registration Form does not necessarily mean that you have been  
automatically accepted until official confirmation by the Institute of Quarrying Malaysia Bhd.*

# IQM Continuous Professional Development Programme



# QUARRY ECONOMICS 2019

CPD HRS: 12  
HRDF CLAIMABLE

**Course Date: 7 - 8 March 2019**  
**Exam Date : 8 March 2019**

Organised by:



Supported by:



DEPARTMENT OF MINERAL &  
GEOSCIENCE MALAYSIA

To be held at

**INSTITUTE OF QUARRYING MALAYSIA BHD**  
23, Jalan Utama 1/7, Tmn Perindustrian Puchong Utama  
(Puchong Perdana), Section 1, 47100 Puchong, Selangor D.E.



*This introductory training course comprises 8 modules which will provide a sound practical foundation for quarry owners, operators and personnel to understand the economic factors influencing quarry operations. The course will be delivered by quarry practitioners Mr Nick Lewis and Mr Andrew Houghton with over 75 years of combined professional experience across the quarry industry in Asia, Australia and the UK.*

## MODULE DESCRIPTION

### Resource and Reserve Evaluation

The fundamental asset of any quarry is its rock reserves. This module presents a summary of methods of reserve evaluation with an emphasis on risks and assumptions.

### Market Studies

It is essential that quarry operators understand their local market and this module reviews the key factors influencing this market including location, royalties, licenses, product range and quality, transport options and competitors.

### Costs Associated with Quarry Development

Quarry development costs represent a significant capital expenditure that ideally should be spread over the life of the quarry. This module identifies key items of expenditure including access and haul roads, overburden stripping and storage, plant areas and stockpiles. This module does not include any review of processing and blasting costs.

### Valuation and Due Diligence

This module presents a consideration of the factors influencing independent valuations of both greenfield and existing quarries. This includes reserve and resource assessment, quarry planning, market studies including proximity to local and major infrastructure projects.

### Blasting Economics

The blasting operation plays a pivotal role in the overall economics of quarries. This module explores the impacts of the drilling & blasting sub-system with a particular focus on fragmentation, that affects all the other associated sub-systems, i.e. loading, hauling, crushing and screening operations.

### Plant Costs Drivers

This module considers practical aspects of the key operating processes of excavating and loading, haulage, fleet matching, and aggregate processing plant. Optimum equipment selection and efficient process flow are critical components in defining how an aggregate plant is going to make the required products as economically as possible.

### Operational Excellence for Quarries

A higher level module that explores operational excellence in the building materials value chain by leveraging systems and processes to customize common quarry operating best practices, including the importance of employee engagement and alignment.

### Economic Value Added (EVA)

In corporate finance, economic value added is an estimate of a firm's economic profit, or the value created in excess of the required return of the company's shareholders. This module will give course participants an appreciation of EVA, and how by using EVA may change the way quarry managers measure performance and evaluate investment decisions.

## TRAINING METHODOLOGY

Course methods include combination of:

- Lectures
- Group Discussions
- Presentations
- Training Videos

## WHO SHOULD ATTEND

This course is tailored to meet the needs of Managers, Engineers, supervisors and other employees who wish to gain first-hand knowledge of Quarry Economics.

### SPEAKER 1: MR. NICK LEWIS

Mr. Nick Lewis has over forty years' experience in the construction materials industry including operations management, technical and quality assurance, environmental protection, Health & Safety, commercial and strategic planning. Nick holds UK National qualifications in Civil Engineering & Construction and Quarry Engineering. More broadly, he has gained extensive knowledge in construction materials, specializing in 'hardstone' and limestone quarry aggregates, cement, slag, quicklime, ready-mixed concrete, asphalt, pre-cast concrete and dimension stone products, while undertaking wide-ranging technical and engineering consulting in the UK, Hong Kong, Greater China, Australia, Indonesia, Malaysia, Singapore, Thailand, Philippines and Falkland Islands.

He has held advisory positions on the Hong Kong Mines Department Consultative Group on Blasting Regulations, 'CS3' Aggregates Committee, Hong Kong Construction Materials Association Sustainability Committee, and the Singapore Centre for Transport and Research Committee. He is a Fellow member of The Institute of Quarrying, and is currently Hong Kong Committee Member and Branch Treasurer.

### SPEAKER 2: MR. ANDREW HOUGHTON

Andrew Houghton is a qualified professional Engineering Geologist with over forty years' experience. This has been obtained in a wide range of geotechnical and geological projects and environments including Southern Africa, U.K., Hong Kong, Taiwan, Mongolia, India, Saudi Arabia, Malaysia, Indonesia, the Philippines, PNG and Australia. His resume represents a broad base of engineering geology experience across a wide spectrum of projects and his particular interests relate to the application of engineering geology to large underground openings (tunnels and caverns) and quarry/mine development planning.

Andrew has been involved with the quarrying industry for over 40 years and has worked on a variety of resource, planning, development and due diligence projects. He is Fellow of the Institute of Quarrying in Australia, past chairman of the Hong Kong Branch and is a founding member of the Institute of Quarrying in Malaysia. He currently work as Senior Consultant with Groundwork Plus, a niche quarrying consultant based in Brisbane.