

## TRAINING METHODOLOGY

Course materials include a combination of:

- *Lectures*
- *Group Discussion*
- *Presentation*
- *Training Videos*
- *Practical Demo at Quarry Site*

## CERTIFICATE

A **Certificate of Attendance** will be presented to participants at the end of each course.

A **Certificate** will also be awarded to participants who have passed the written examination of each course.

After having completed the 5 modules and passed all the written examinations, the **Quarry Manager's Certificate** will be awarded to the successful participant which will be issued by Institute of Quarrying Malaysia Bhd and endorsed by Jabatan Mineral & Geosains Malaysia.

## OTHER ENDORSEMENTS

1. All course modules have been approved under the HRD CORP. Companies contributing to HRD CORP are eligible to claim the course fee.
2. The course modules are also endorsed by the Board of Engineers (BFM) and have given the approval number of CPD hours as follows:

	<i>Approved CPD Hours</i>
<b>Drilling</b>	<b>18</b>
<b>Training Course for Shotfirers</b>	<b>32</b>
<b>Crushing &amp; Screening</b>	<b>18</b>
<b>OSH for Quarry Managers</b>	<b>24</b>
<b>Environmental Management</b>	<b>24</b>

## COURSE FEE

	<i>Members</i>	<i>Non Members</i>
<b>Drilling</b>	RM 950	RM 1250
<b>Training Course for Shotfirers</b>	RM 1800	RM 2100
<b>Crushing &amp; Screening</b>	RM 950	RM 1250
<b>OSH for Quarry Managers</b>	RM 1550	RM 1750
<b>Environmental Management</b>	RM 1550	RM 1750

## ENTRANCE REQUIREMENTS

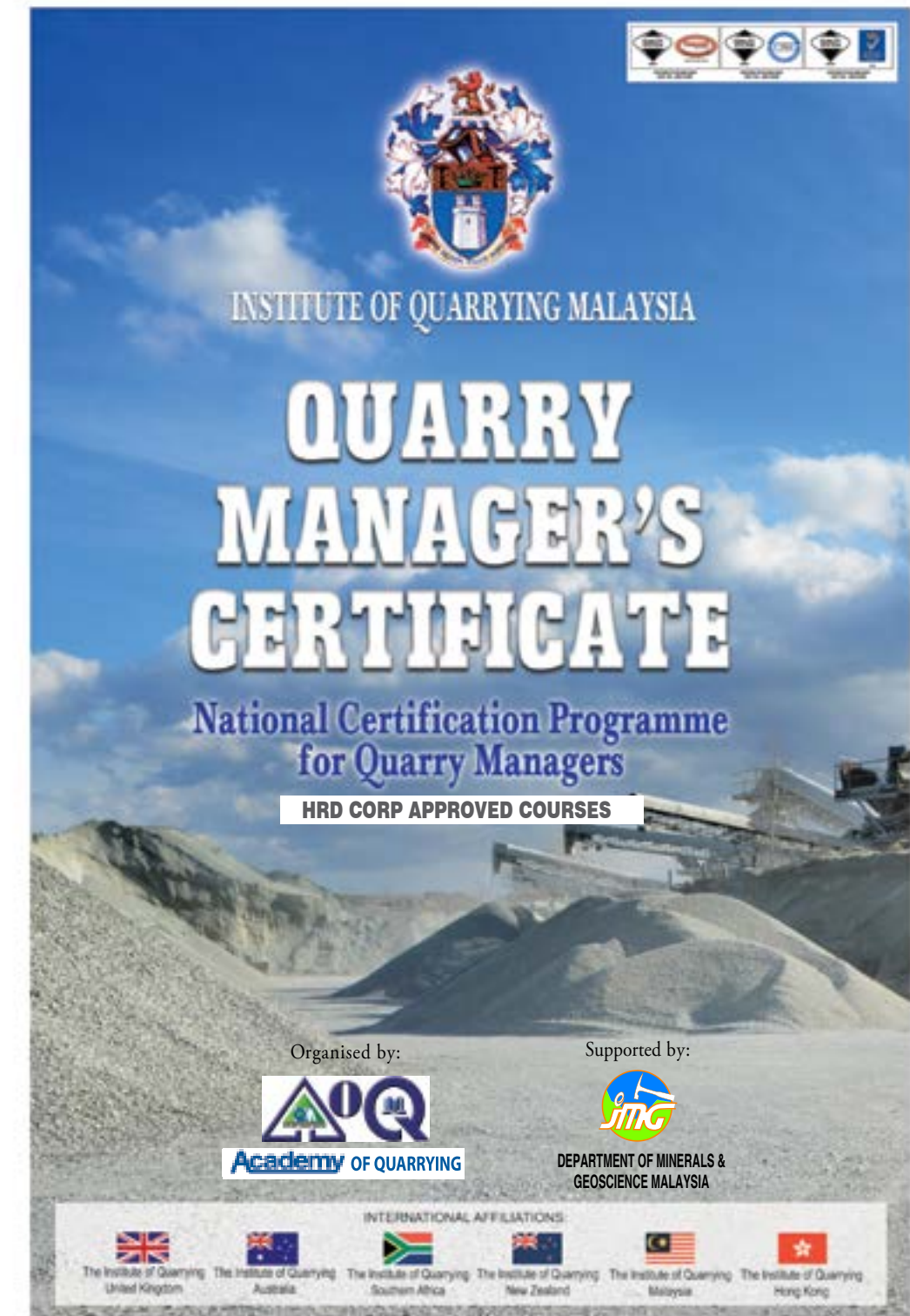
Training opportunities are available to anyone (male or female).  
The entry requirements are:

1. A person who is already employed in the quarrying, mining or related industries.
2. Age 21 and above with acceptable industrial experience.
3. Has communication and industry skills on which to base successful progress through the training programs.
4. Satisfies legal requirements for the handling of explosive materials.

## COURSE ENQUIRIES

All enquiries should be addressed 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  
Website: [www.iqm.com.my](http://www.iqm.com.my) Email: [admin@iqm.com.my](mailto:admin@iqm.com.my)



The poster features a background image of a quarry with large piles of aggregate material. At the top right, there are several logos including HRD CORP and others. The central text reads: **INSTITUTE OF QUARRYING MALAYSIA**, **QUARRY MANAGER'S CERTIFICATE**, **National Certification Programme for Quarry Managers**, and **HRD CORP APPROVED COURSES**. Below this, it states 'Organised by:' with the logo for the **Academy of Quarrying**, and 'Supported by:' with the logo for **DEPARTMENT OF MINERALS & GEOSCIENCE MALAYSIA**. At the bottom, there is a section for 'INTERNATIONAL AFFILIATIONS:' with logos for The Institute of Quarrying in the United Kingdom, Australia, Southern Africa, New Zealand, Malaysia, and Hong Kong.

## INTRODUCTION

In this New Economic Era of Globalisation, the industry with the edge is one which has the expertise, personnel and the knowledge on novel techniques for further industrial development. With globalisation and the implementation of the ASEAN Free Trade Agreement (AFTA), the Malaysian quarrying industry needs to upgrade the cutting-edge knowledge of their workforce to stay competitive in this new era of knowledge-based economy. It is anticipated that there will be an enormous increase in the demand of minerals by the manufacturing and construction industries. Sustainable Development of the quarrying sector is the aim to optimise the economic contribution derived from the industry to the well-being of the present generation and that of the future generations to meet their needs for further national development. Quality assurance is the ability of the human resources in the industry in carrying out any task efficiently based on its expertise and skills. Every personnel in the quarrying industry should thus achieve a higher level of professionalism via accumulating additional knowledge to update ones experience, skills and job proficiency with the aim to attain expert status in the personnel's specialised field of interest. Knowledge is the competitive edge to successfully face the existing economic challenges of globalisation. A well developed and ample supply of skilled and competent workforce in the quarrying sector is vital to Malaysia fast track industrialization programme as it is an important component towards providing crucial technical economic, safe and environmentally-friendly expertise towards the sustainable development of the quarrying sector. Availability of skilled human resource personnel in the minerals resource industry will further enhance the internationalisation of the Malaysian quarrying via the efficient use and mobility of technical expertise worldwide. With globalisation, national boundaries will no longer be obstacles to the migration of the experienced Malaysia quarrying personnel overseas. This Quarrying Manager's Certificate Course, designed on the request of the Government and quarrying industry, is accredited and aims to benefit existing and aspiring Quarry Managers via upgrading their existing expert knowledge on efficient daily site management practices. The 5 modules for Quarry Manager Certification includes: Drilling, Shot-Firing, Crushing & Screening, Occupational Safety and Health, and Environmental Management.

# QUARRY MANAGER'S CERTIFICATE

## 5 MODULAR COURSES

### DRILLING

- Introduction of Drill and Blast Operations
- Machine appreciation
- Blast Hole Drilling Equipment
- Drilling Accessories
- Plan and Prepare for Operations
- Prepare for Commencement of Work Operation
- Rock Geology

**Duration:** 3 Days

**Fee:** RM 950 (M) RM 1250 (NM)

**CPD Hours:** 18

### TRAINING COURSE FOR SHOFIRERS

- Introduction to Explosives & Types of Explosives
- Explosives Act & Legislation
- Simple Blast Design
- Shot-Firing Tools & Procedures
- Misfire
- Blast Sequence
- Transportation, Storage & Disposal of Explosives
- Environmental Impacts of Blasting
- Drilling & Geology
- Current Commercial Explosives & Accessories
- Practical Demo at quarry site

**Duration:** 6 Days

**Fee:** RM 1800 (M) RM 2100 (NM)

**CPD Hours:** 32

### ENVIRONMENTAL MANAGEMENT

- Environmental Management System
- The Protection and Management of Water Resources
- Air Quality: Impacts, Monitoring and Controls
- Traffic
- Identification, Assessment and Mitigation of Visual Impacts due to quarrying
- Environmental Noise
- Biodiversity
- Geological Conservation
- Waste Management
- Energy Management
- Recycling - Aggregates from a Sustainable Source

**Duration:** 4 Days

**Fee:** RM 1550 (M)

RM 1750 (NM)

**CPD Hours:** 24

### CRUSHING & SCREENING

- Machine and Equipment Appreciation
- Plan Work
- Prepare for Crushing Plant Operation
- Operating Procedures for Crushing & Screening Plants
- Product Quality Control
- Maintenance of Plant and Equipment
- Rock Geology

**Duration:** 3 Days

**Fee:** RM 950 (M)

RM 1250 (NM)

**CPD Hours:** 18

### OSH FOR QUARRY MANAGERS

- OSH Awareness
- Legislation
- Occupational Safety & Health Management System
- Quarry Activities vs OSH
- Appointment of OSH Personnel
- Safety & Health Policy & Activities
- Consultation, Communication and Promotion of OSH
- Managing the Safety & Health of Contraction

**Duration:** 4 Days

**Fee:** RM 1550 (M)

RM 1750 (NM)

**CPD Hours:** 24

(M) - IQM Members

(NM) - Non Members