



The Plastics and Rubber Institute Malaysia
20 Jalan U5 / 28, Mah Sing Industrial Estate,
40150 Shah Alam, Selangor Darul Ehsan.
E-mail : primy@prim.org.my website : www.prim.org.my
Tel : 03-7847 1034 Fax : 03-7847 1610

DIPLOMA OF THE PLASTICS AND RUBBER INSTITUTE MALAYSIA
(D P R I M) - RUBBER

Background

The Plastics and Rubber Institute Malaysia organises a part-time, one year course, leading to the award of the Diploma of the Plastics and Rubber Institute of Malaysia (DPRIM). The course is designed for those already in the rubber industry but with no formal training on subjects related to polymer science and technology. It is intended that the theoretical study and insight given by the Institute's lecturers are related to viable activity and need of the local industries and thus a bridge is established between academic activities and technology as it is practised in the industries.

The course provides valuable training and leads to a useful additional qualifications for successful candidates. Although the PRIM Diploma is not recognized by the Government or any Higher Institutional Bodies, it is recognized as a qualification suitable for a technical position of some responsibility in the rubber industry.

The candidate has to undergo the complete course of 16 modules as well as the mid-year practical session. Upon successful completion and passing the 3 examination papers, a certificate of DPRIM will be awarded by the Institute.

Course Structure

The course commences in January 2012. The examination will be set in December of the same year.

Evening lectures of 3 hours duration will be held once a week at the Lee Foundation Hall, PRIM Building, 20 Jalan U5/28 Mah Sing Integrated Industrial Park, 40150 Shah Alam. A total of 161 hours will be spent on the lectures and practical.

A one-week duration practical session which illustrates the laboratory topics covered in the lectures will be held at the Rubber Technology Centre, Malaysian Rubber Board. The candidates will also work with factory size rubber processing machinery and laboratory testing equipment.

Entry Requirements

The minimum requirements for the entrance of the Diploma Course are:

- a. Credits in English, Physics, Chemistry and Mathematics or General Science at the SPM level or equivalent, and
- b. One year working experience in the rubber industry.

Course Contents

The course is divided into 3 sections. The topics covered are as follows:

a. Polymer Science

- i. Polymerisation
- ii. Nature and structure of polymers
- iii. Properties of polymers
- iv. Introduction to flow behaviour
- v. Physics of vulcanized rubber
- vi. Testing of polymers and vulcanisates

b. Rubber Processing

- i. Selection, storage and handling of materials
- ii. Processing and processability
- iii. Mixing
- iv. Extrusion
- v. Calendering
- vi. Moulding
- vii. Other vulcanisation techniques
- viii. Recycling and Reclaim
- ix. Quality Control, TQM, SPC

c. Rubber Materials

- i. Rubbers – grades, types, characteristics and applications
- ii. Main characteristics and application of speciality rubbers
- iii. Compounding ingredients - sources, manufacture (in outline), grades, types and characteristics.
- iv. Formulation / Mix design
- v. Thermoplastic rubbers
- vi. Polymer blends
- vii. Rubber-to-metal bonding
- viii. Fabrication of rubber products, e.g., Tyre, Hose, Footwear
- ix. Latex technology

Assessment for award of DPRIM

Award of the DPRIM will be dependent on satisfactory performance in the written examination taken at the end of the course, i.e., in December, and assessment of practical reports. Internal and external examiners will jointly assess standards.

Fees

The Course fee is RM2200.00. If the applicant is not a member of PRIM, an application for the membership of the Institute should accompany the application for enrolment. The application fee is RM15.00 for a Student Membership.

The examination entry fee is RM180.00 comprising three papers at RM60.00 each.

Applications for Enrolment

Applications for enrolment to the Course must be made on the attached application form, (copies may be reproduced if there are more than one applicant from an organisation). The closing date for enrolment for the 2012 Course is 31st December 2012.

DIPLOMA OF THE PLASTICS AND RUBBER INSTITUTE MALAYSIA
APPLICATION FOR YEAR 2012 ENROLMENT

1. Name : _____

2. Address (office) : _____

Tel : _____ Fax : _____ E-mail : _____

3. Address (home) : _____

Tel/ H/P : _____ Fax : _____ E-mail : _____

4. Date of birth : _____ 5. Sex : _____

6. SPM / GCE / MCE / SC examination results :	Grade
English language	_____
Mathematics	_____
General science	_____
Additional mathematics	_____
Chemistry	_____
Physics	_____

7. Other qualification _____

8. Employment :
Name and address of present employer: _____

Position or nature of occupation: _____

Number of years at present employment : _____

Past employment: _____

9. Are you sponsored by your present employer for this course : _____

Signature of applicant: _____ Date: _____

Note:

Please submit copies of identity card and relevant education certificates with this application. Photostat copies of this application form are acceptable.

If the applicant is currently not a member of The Plastics and Rubber Institute Malaysia, an application for membership of the Institute should accompany the application for enrolment. The application fee is RM. 15.00 for a student membership.

An enrolment fee of RM 2600.00 (Ringgit Malaysia Two Thousand Two Hundred only) should accompany this application form. The fee is refundable if the application is not successful. All cheque / money orders should be made payable to **The Plastics and Rubber Institute Malaysia**.

Please return / fax the completed form to:

Ms. Sharon / Ms. Woon Lay Peng
The Plastics and Rubber Institute Malaysia
20, Jalan U5 / 28
Mah Sing Industrial Estate,
40150 Shah Alam
Selangor Darul Ehsan

Tel : 03-78471034 Fax: 03-78471610
E-mail : primy@prim.org.my

For further information / query, you may contact :

Ms. Sharon / Ms. Woon Lay Peng
Tel : 03-78471034 E-mail : primy@prim.org.my

Dr. Aris Ahmad
Tel: 012-3341972 , E-mail: aris@lgm.gov.my

THE PLASTICS AND RUBBER INSTITUTE MALAYSIA
APPLICATION FOR 2012 MODULAR COURSES

Module Name: _____

Module Number : _____

Module Fee (RM) : _____

1. Mr./ Miss/ Mdm. _____ Date of birth : _____

2. Address (office) :

Tel : _____ Fax : _____ E-mail : _____

3. Address (home) :

Tel : _____ Fax : _____ E-mail : _____

4. Name and address of present employer :

Position : _____ Year in service : _____

5. Are you sponsored by your present employer for this course : _____

Photostat copies of this application form are acceptable.

An enrolment fees of the appropriate amount as stated against each module should accompany this application form. All Cheque / money orders should be made payable to **The Plastics And Rubber Institute Malaysia**.

Signature of applicant: _____ Date: _____

Interest participants please fill in attached application form and :-

Return / fax to :-

Ms Sharon / Ms. Woon Lay Peng
The Plastics and Rubber Institute Malaysia
20, Jalan U5 / 28, Mah Sing Industrial Estate,
40150 Shah Alam, Selangor Darul Ehsan
Tel : 03-78471034 , Fax: 03-78471610

DIPLOMA OF THE PLASTICS AND RUBBER INSTITUTE MALAYSIA
DIPLOMA CERTIFICATE AND MODULAR COURSES

(also supported by MRPMA)

VENUE : LEE FOUNDATION HALL PRIM BUILDING ,
 20 JALAN U5 / 28, MAH SING INTEGRATED INDUSTRIAL PARK,
 SHAH ALAM , SELANGOR DARUL EHSAN.

TIME : 5.00 pm to 8.00 pm.

Module No.	Date	Topic	Lecturer	Fee (RM)
1	11-1-2012	Common Rubbers	Dr. Aris Ahmad	210
	18-1-2012	Common Rubbers		
	01-2-2012	Common Rubbers		
2	08-2-2012	Polymerisation	Mr. Goh Kok Soo	210
	15-2-2012	Nature & Structure of Polymers		
	22-2-2012	Introduction to Plastics & Composites		
3	29-2-2012	Properties and Flow Behaviour	Dr. Azemi Samsuri	260
	07-3-2012	Properties and Flow Behaviour		
	14-3-2012	Properties and Flow Behaviour		
	21-3-2012	Properties and Flow Behaviour		
4	28-3-2012	Specialty Rubbers	Dr. Abu Amu	150
	04-4-2012	Specialty Rubbers		
5	11-4-2012	Compounding Ingredients	Dr. Aris Ahmad	210
	18-4-2012	Compounding Ingredients		
	25-4-2012	Compound Design		
6	02-5-2012	Mixing Technology	Dr. Abu Amu	150
	09-5-2012	Mixing Technology		
7	16-5-2012	Calendering Technology	Mr. Loh Pang Chai	210
	23-5-2012	Calendering Technology		
	30-5-2012	Calendering Technology		

8	08-6-2012	Extrusion Technology	Mr. Loh Pang Chai	150
	13-6-2012	Extrusion Technology		
9	20-6-2012	Moulding	Dr. Aris Ahmad	150
	27-6-2012	Other Vulcanisation Techniques		
10	04-7-2012	QC and Testing of Compounds	En. Haidzir Abdul Rahman	300
	11-7-2012	QC and Testing of Compounds		
	18-7-2012	QC and Testing of Compounds		
	25-7-2012	QC and Testing of Compounds		
	01-8-2012	QC and testing of Rubber Products		
11	08-8-2012	Rubber to Metal Bonding	Mr. Chan Pak Kuen	150
	15-8-2012	Rubber to Metal Bonding		
12	29-8-2012	Recycling and Reclaim	Mr. Muniandy Chellamuthu	150
	05-9-2012	Recycling and Reclaim		
13	12-9-2012	Pneumatic Tyre & Retreads	Mr. Loh Pang Chai	80
14	19-9-2012	Quality Control – ISO 9000	En. Aziz Youp Kamaruddin	150
	26-9-2012	TQM, SPC		
15	03-10-2012	Latex Technology – Classification & Properties	Mr. Vivayganathan	210
	10-10-2012	Latex Technology – Compounding		
	17-10-2012	Latex Technology – Testing		
16	24-10-2012	Latex manufacturing Processes	Mr. Ng Kok Poon	210
	31-10-2012	Latex manufacturing processes		
	07-11-2012	Latex Product Manufacture		
	21-11-2012	Tutorial and Final Briefing	Dr. Aris Ahmad	

Note:

In cases where any of the above dates is declared a public holiday, it will be replaced by either the preceding Tuesday or following Thursday, to be announced one week before the due date

Examination:

Tentative Dates:

10 December 2012	(Monday)	-	Paper I (9.30am – 12.30pm)
11 December 2012	(Tuesday)	-	Paper II (9.30am - 12.30pm)
12 December 2012	(Wednesday)	-	Paper III (9.30am – 12.30pm)

Venue : Akademi Hevea Malaysia (AHM), MRB Sungai Buloh, Selangor

Practical Session:

Tentative Dates : Monday to Friday
25 June to 29 June 2012

Venue : MRB Technology Centre
(Dry Rubber Product Factory, Latex Laboratory
and Physical Testing Laboratory)