



Diploma of the Plastics and Rubber Institute Malaysia (DPRIM) IN RUBBER TECHNOLOGY



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 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 practise in industries.

Established in 1960, the course has since garnered respectable recognition within the Rubber Industry. The course provides valuable training and leads to a useful qualification for successful candidates. Many graduates have since gone on to become Captains and Pioneers of the 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 every January of the year. 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 Intergrated Industrial Park, 40150, Shah Alam, Selangor Darul Ehsan, Malaysia. 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 in the middle of the same year. The candidates will also work with typical rubber processing machinery and laboratory testing equipment.

ENTRY REQUIREMENTS

The minimum requirements for entrance to 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:

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. Fabrication of rubber products, e.g. Tyre, hose, footwear
- viii. Latex Technology

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. Rubber to metal bonding
- ix. Recycling and Reclaim
- x. Quality Control, TQM, SPC

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

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 RM3600/pax for Malaysians & USD900/pax for International Students. If the applicant is not a member of PRIM, an application for the membership of the Institute should accompany the application for enrollment. The application fee is RM75.00 for 5-years Student Membership.

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

APPLICATIONS FOR ENROLMENT

Applications for enrollment to the Course must be made on the attached application form, (copies may be reproduced if there are more than one applicant from an organization). The closing date for enrollment for the course is every 31st December of the year.

MRC INCENTIVE FOR DPRIM (RUBBER) ENROLMENT

SBIM 14 - Diploma Of The Plastics & Rubber Institute of Malaysia (PRIM)



Diploma of the Plastics and Rubber Institute Malaysia

Diploma Certificate and Modular Courses

Venue: Lee Foundation Hall, PRIM Building, 20 Jalan U5/28

Mah Sing Intergrated Industrial Park, Shah Alam, 40150 Selangor Darul Ehsan, Malaysia.

Time. : 5:00pm to 8:00pm

MODULE NO.	CLASS	TOPIC	INDIVIDUAL MODULE FEES	
			MALAYSIAN (RM)	INTERNATIONAL (USD)
1	1	Common Rubbers - Natural		
	2	Common Rubbers - Synthetic	300	90
	3	Common Rubbers - Synthetic		
2	1	Compounding Ingredients & Rubber Blends	220	65
	2	Compound / Formulation Design		
3	1	Speciality Synthetic Rubbers	220	65
	2	Speciality Synthetic Rubbers		
4	1	Properties and Flow Behavior		
	2	Properties and Flow Behavior	300	90
	3	Properties and Flow Behavior		
5	1	Moulding Technology	220	65
	2	Other Vulcanisation Techniques		
6	1	Mixing Technology	220	65
	2	Mixing Technology		
7	1	Calendering Technology	220	65
	2	Calendering Technology		
8	1	Polymerisation		
	2	Nature & Structure of Polymers	300	90
	3	Introduction to Plastics & Composites		
9	1	Extrusion Technology	220	65
	2	Extrusion Technology		
10	1	Rubber to Metal Bonding	220	65
	2	Rubber to Metal Bonding		
11	1	Recycling and Reclaim	220	65
	2	Recycling and Reclaim		
12	1	QC and Testing of Compounds		
	2	QC and Testing of Compounds		
	3	QC and Testing of Compounds	500	150
	4	QC and Testing of Rubber Products		
	5	QC and Testing of Rubber Products		
13	1	Pneumatic Tyre & Retreads	120	40
14	1	Quality Control - ISO 9000	220	65
	2	TQM, SPC		
15	1	Latex Technology - Classification & Properties		
	2	Latex Colloid Science	300	90
	3	Latex Technology		
16	1	Latex Technology - Compounding	220	65
	2	Latex Technology - Testing		
17	1	Latex Product Manufacture		
	2	Latex Product Manufacture	300	90
	3	Latex Product Manufacture		
	1	Tutorial & Final Briefing		

** Disclaimer:

The organizer has the right to change the course contents, lecturers, practical venue, and examination venue.

Note:

In cases where any of the above dates falls on 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:

Tentatively 3rd Week of December.
Monday - Paper 1 (9:30am-12:30pm)
Tuesday Paper 2 (9:30am-12:30pm)
Wednesday - Paper 3 (9:30am-12:30pm)

Practical Sessions:

Tentatively 3rd Week of July
(Monday to Friday)

DIPLOMA OF THE PLASTICS AND RUBBER INSTITUTE MALAYSIA

APPLICATION FOR YEAR () ENROLMENT

1. Mr. / Miss/ Madam: _____ Date of Birth: _____ SEX: (M / F)

2. Address (Home): _____

Tel: _____ Fax: _____ Email: _____

3. Name and Address of Present Employer: _____

Position: _____ Years of Service: _____

Tel: _____ Fax: _____ Email: _____

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

5. Past Employment: _____

6. Academic Qualifications
SPM/ GCE/ MCE/ SC Grade _____
English Language _____ Mathematics _____
Additional Maths _____ Chemistry _____
General Science _____ Physics _____

6. Other Qualifications: _____

Please submit copies of identify card and relevant academic 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 (PRIM), an application fee for membership to the Institute should accompany the application for enrolment. The application fee is RM75.00 for 5-years student membership.

An enrollment fee of RM3600 / USD900 should accompany this application form. The fee is refundable if the application is not successful.
All Cheques/ money-orders should be made payable to THE PLASTICS AND RUBBER INSTITUTE MALAYSIA.

Signature of applicant: _____ Date: _____

Please return completed application form to

THE PLASTICS AND RUBBER INSTITUTE MALAYSIA
20, Jalan U5/28
Mah Sing Intergrated Industrial Park
40150 Shah Alam
Selangor Darul Ehsan
Malaysia
Tel: +603-7847 1034
Fax: +603-7847 1610
Email: Primy@prim.org.my

DIPLOMA OF THE PLASTICS AND RUBBER INSTITUTE MALAYSIA

APPLICATION FOR YEAR () MODULAR COURSES

Module Name: _____

Module Number: _____ Module Fee (RM): _____

1. Mr. / Miss/ Madam: _____ Date of Birth: _____

2. Name and Address of Present Employer: _____

Position: _____ Years of Service: _____

Tel: _____ Fax: _____ Email: _____

3. Address (Home): _____

Tel: _____ Fax: _____ Email: _____

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

Photostat copies of this application form are acceptable.

Enrolment fees of the appropriate amount as stated against each module should accompany this application form.

All Cheques/ money-orders should be made payable to THE PLASTICS AND RUBBER INSTITUTE MALAYSIA.

Signature of applicant: _____

Date: _____

Please return completed application form to

THE PLASTICS AND RUBBER INSTITUTE MALAYSIA

20, Jalan U5/28

Mah Sing Intergrated Industrial Park

40150 Shah Alam

Selangor Darul Ehsan

Malaysia

Tel: +603-7847 1034

Fax: +603-7847 1610

Email: Primy@prim.org.my



LATEST**2023**

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 UTARID U5 / 28, MAH SING INTEGRATED INDUSTRIAL PARK,
SHAH ALAM , SELANGOR DARUL EHSAN.

TIME : **5.00 pm to 8.00 pm.**

<i>Module No.</i>	<i>Date</i>	<i>Topic</i>	<i>Lecturer</i>	<i>Fee (RM)</i>
1	11-01-2023	Common Rubbers - Natural	Dr. Md. Aris Ahmad / Mr. Chan Pak Kuen	300
	18-01-2023	Common Rubbers - Synthetic		
	01-02-2023	Common Rubbers - Synthetic		
2	08-02-2023	Specialty Synthetic Rubbers	Mr. Chan Pak Kuen	220
	15-02-2023	Specialty Synthetic Rubbers		
3	22-02-2023	Compounding Ingredients & Rubber Blends	Dr. Md. Aris Ahmad / Mr. Chan Pak Kuen	220
	01-03-2023	Compound / Formulation Design		
4	08-03-2023	Polymerisation	Mr. Goh Kok Soo	300
	15-03-2023	Nature & Structure of Polymers		
	22-03-2023	Introduction to Plastics & Composites		
5	29-03-2023	Moulding Technology	Dr. Roland Ngeow	220
	05-04-2023	Other Vulcanisation Techniques		
6	12-04-2023	Extrusion Technology	Dr. Yong Kok Chong	220
	19-04-2023	Extrusion Technology		
7	03-05-2023	Calendering Technology	Mr Pong Kai See	220
	10-05-2023	Calendering Technology		
8	17-05-2023	Properties and Flow Behaviour	Dr. Ahmad Faiza	300
	24-05-2023	Properties and Flow Behaviour		
	31-05-2023	Properties and Flow Behaviour		

Module No.	Date	Topic	Lecturer	Fee (RM)
9	07-06-2023	Mixing Technology	Mr. Lim Sum Teck	220
	14-06-2023	Mixing Technology		
10	21-06-2023	Recycling and Reclaim	Mr. Lim Sum Teck	220
	05-07-2023	Recycling and Reclaim		
11	12-07-2023	Rubber to Metal Bonding	Mr. Chan Pak Kuen	220
	26-07-2023	Rubber to Metal Bonding		
12	02-08-2023	Quality Control – ISO 9000	Mr. Aziz Youp	220
	09-08-2023	TQM, SPC		
13	16-08-2023	Pneumatic Tyre & Retreads	Mr. Ahmad Nazir	220
	23-08-2023	Tyre Testing & MS 224		
14	30-08-2023	Latex Technology – Classification & Properties	Dr. Manroshan Singh	300
	06-09-2023	Latex Colloid Science		
	13-09-2023	Latex Technology		
15	20-09-2023	Latex Technology – Compounding	Mr. Vivayganathan / Dr. Hafsah Ghazaly	400
	27-09-2023	Latex Technology – Testing		
	04-10-2023	Latex Product Manufacture		
	11-10-2023	Latex Product Manufacture		
16	18-10-2023	QC and Testing of Compounds	Assoc. Prof. Dr. Ong Siew Kooi / Dr. Syamsul Kamarudin	500
	25-10-2023	QC and Testing of Compounds		
	01-11-2023	QC and Testing of Compounds		
	08-11-2023	QC and Testing of Rubber Products		
	22-11-2023	QC and Testing of Rubber Products		
17	29-11-2023	Final Briefing	Dr. Md. Aris Ahmad	220