

AIP HALF-DAY TRAINING COURSES



AUSTRALIAN INSTITUTE
OF PACKAGING

INTRODUCTION TO PLASTICS HALF-DAY TRAINING COURSE MODIFIED ATMOSPHERE PACKAGING HALF-DAY TRAINING COURSE

TOPIC:

INTRODUCTION TO PLASTICS HALF-DAY TRAINING COURSE

WHEN:

Wednesday the 25th of November

WHERE:

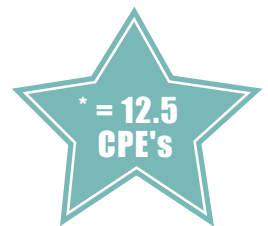
Packaging Council of New Zealand Building
17E Greenmount Drive, East Tamaki, Auckland
(The building is at the end of a long driveway and there is parking outside.)

TIME:

10.00 am arrival for a 10.30 am commencement
Training will conclude at approx. 3.30 pm
Morning tea, lunch and afternoon tea will be provided

PRESENTER:

Pierre Pienaar, MSc, FAIP, CPP



OVERVIEW OF THE COURSE :

This half-day course will be clear and comprehensive, it will present a precise, non-mathematical introduction to plastics, their raw materials, syntheses, and applications, discussing the manufacture and properties of plastics as a function of the molecular properties of polymers used in the plastics industry. The course will consist of the properties of the main classes of materials, on the principles of such processes as injection moulding, extrusion, blow moulding and thermoforming polymers.

TOPIC:

MODIFIED ATMOSPHERE PACKAGING HALF-DAY TRAINING COURSE

WHEN:

Thursday the 26th of November

WHERE:

Packaging Council of New Zealand Building
17E Greenmount Drive, East Tamaki, Auckland
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Morning tea, lunch and afternoon tea will be provided

PRESENTER:

Pierre Pienaar, MSc, FAIP, CPP



OVERVIEW OF THE COURSE :

This half-day course will cover MAP and its application to fruit, vegetables, meat and fish, followed by the functional attributes of MAP films. The important role of Active Packaging (antimicrobials, antioxidants etc.) including recent developments and future projections will be examined. Advances in polymeric films including sustainability together with the technical assessment and monitoring of Modified Atmosphere packs will be outlined.

WEDNESDAY THE 25TH OF NOVEMBER

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THE COURSE :**

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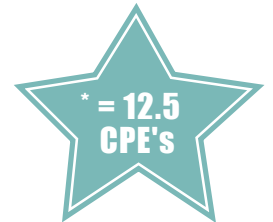
The course will consist of the properties of the main classes of materials, on the principles of such processes as injection moulding, extrusion, blow moulding and thermoforming polymers. No previous experience will be assumed in the subject matter of the lectures.

Plastics are polymeric materials, a material built up from long repeating chains of molecules. Polymers such as rubber occur naturally, but it wasn't until the development of synthetic polymers that the polymers tailored to the needs of the industry first started to appear. One of the first commercial plastics developed was Bakelite and was used for the casing of early radios. During the Second World War, plastics such as nylon and polyethylene were used as a replacement material for other materials in short supply. Because the early plastics were not completely chemically stable, they gained a reputation for being cheap and unreliable. However, advances in plastic technology since then, mean that plastics are a very important and reliable class of materials for product design.

The mechanical properties of plastics tend to be inferior to most metals. Because of this, careful consideration must be given to using plastics for structural applications. Fibre reinforced plastics are extensively used where the mechanical properties of the base plastic material are not sufficient. However because of their relatively low weight, the ability to colour the plastics when manufacturing, and the ability to mould complex shapes relatively easily, plastics are extensively used for product casings and other applications where mechanical strength is not at a premium. Plastics are not cheap materials. The cost of raw plastic materials is typically higher than steel but less than aluminium. However, because processing costs over large production runs are lower, the use of plastics can result in significantly cheaper products.

We will discuss the two main families of plastics, **thermosets** and **thermoplastics** and their methods of moulding, i.e. the various methods of blow moulding as well as the various methods of injection moulding. We will conclude with plastic applications in the industry, associated problems, choosing the correct plastic for the application and which aspects of plastics to avoid.

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**OVERVIEW OF
THE COURSE:**

Modified atmosphere packaging, MAP, is a technology that has been developed to ensure that packaged food products stay fresh and attractive for as long as possible. The increased understanding of the biochemical pathways coupled with the advances in plastics has opened new opportunities for product protection and shelf life extension. The retention of flavour, colour, texture are important factors in the selection and purchase of food by the consumer. The development of new and sophisticated barrier materials has also resulted in broader applications as well as supporting new processing techniques. Arising from the development of MAP has been the extension into ACTIVE PACKAGING which has provided the opportunity to 'manage' the atmosphere of a pack by absorbing or releasing gaseous components and maintaining quality with the extension of shelf life. Whilst developments in barrier materials have provided significant benefits through MAP for foods this has also extended in to other major areas of packaging.

**OBJECTIVE OF
THE COURSE:**

This half-day course will cover MAP and its application to fruit, vegetables, meat and fish, followed by the functional attributes of MAP films. The important role of Active Packaging (antimicrobials, antioxidants etc.) including recent developments and future projections will be examined. Advances in polymeric films including sustainability together with the technical assessment and monitoring of Modified Atmosphere packs will be outlined.

**WHO SHOULD
ATTEND?:**

This half-day training course is designed for anyone who has an interest or involvement in the use of MAP and Barrier Materials. The aim is to provide a comprehensive overview of techniques and materials and recent developments.

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INTRODUCTION TO PLASTICS HALF-DAY TRAINING COURSE
MODIFIED ATMOSPHERE PACKAGING HALF-DAY TRAINING COURSE

BOOK ON-LINE, EMAIL, SCAN OR FAX BACK

NB: To reserve your place simply book on-line, email your booking, or fax back this form.

HOW TO BOOK ?

ON-LINE

To reserve your place **CLICK HERE** to book on-line.

EMAIL : AIP MEMBERS ONLY

AIP Members: Email your confirmation to mark@aipack.com.au
Please indicate in your email if you have any additional guests.

SCAN OR FAX BACK

To reserve your place by fax fill in your details below and fax back to + 61 7 3009 9916 or scan and email back to mark@aipack.com.au If you are an AIP Member simply fill in your name, contact number and dietary requirements.

Mr/Ms: _____ Given Name: _____ Surname: _____

Position: _____ Company: _____

Address: _____

Suburb: _____ State: _____ Post Code: _____

Ph: (____) _____ Mob: _____

Email address: PRINT CLEARLY _____

Please indicate if you have any allergies or dietary requirements: _____

ADDITIONAL GUESTS

First Name: _____ Surname: _____

Email Address: PRINT CLEARLY _____ Company: _____

Please indicate if you have allergies or dietary requirements: _____

First Name: _____ Surname: _____

Email Address: PRINT CLEARLY _____ Company: _____

Please indicate if any of your guests have allergies or dietary requirements: _____

REGISTRATION FEES

25th November - Introduction to Plastics 26th November - Modified Atmosphere Packaging Both

AIP Members \$300 AUD (one course) \$500 AUD (both courses) QTY: x _____ \$ _____

PAC NZ NZIFST \$350 AUD (one course) \$600 AUD (both courses) QTY: x _____ \$ _____

Non-Members \$400 AUD (one course) \$700 AUD (both courses) QTY: x _____ \$ _____

*NB: A Tax Invoice will be sent upon receipt of your booking. The attendance fee includes catering for morning tea, lunch and afternoon tea. Please note, a workbook will be provided to each participant for future reference and use. Due to catering and venue requirements **NO CANCELLATIONS** will be accepted after **Friday the 20th of November**. Replacements will however be accepted.*

Mark Kelton
AIP National Office

+61 7 3278 4490 ✉ **mark@aipack.com.au**