

DDSP 2021 Diploma in Design and Specification of Plastics



DDSP 2021: Diploma in Design & Specification of Plastics

Do you want to produce the best plastic parts possible? Join your colleagues and gain the essential knowledge provided by this industry-recognised plastics course. The Plastics New Zealand Diploma in Design and Specification of Plastics (DDSP) equips attendees to succeed in their careers within the Industry.

Plastic is an incredible material used extensively in the manufacture of a diverse range of products. This enables innovation and growth within many essential sectors of the NZ economy. It is a complex material with a wide range of functions, properties and manufacturing methods.

Whether you are a designer, specifier or processing technician you need an understanding of polymers and how they behave during processing. To avoid quality issues during manufacture you need to understand basic design fundamentals. To avoid negative environmental impacts, you need to consider best-practice design for the environment principles.

"The DDSP has had a noticeable impact on the quality of the part designs produced by our engineers and a reduction in quality issues during manufacture."

DDSP Introduction

Learn the jargon you need to work within the plastics industry. Introducing you to the NZ Industry, it will give you an overview of the fundamentals of plastic polymers, processing and the design process. This module provides the foundation for the remaining DDSP modules. It can also be completed as a stand-alone course.

"...an excellent presenter, interesting, fun, passionate and knowledgeable" "Well conducted and thought out. The 'rules of thumb' were the most useful..."



DDSP Polymers

Discover the information you need to know to specify the right materials for your product. Learn how to properly troubleshoot production and quality issues. This module provides indepth information on the chemistry of polymers. Content includes different polymer families and how their configuration impacts their processing and end-use applications.

Audience ... This module is intended for those in plastics design, operational, production or technical sales roles within the plastics industry or those who specify the use of plastics materials for their organisation.

DDSP Processing

Become more effective in your technical plastics or design role. In this module develop an advanced understanding of how various polymers behave during processing and how this impacts final part quality. Learn how additives and colourants are manufactured and how these can aid or impact processing and part performance.

Objectives.. Understand the impact of additives on processing.
Understand the thermoplastics polymer melting process.
Learn the basics of extrusion, injection moulding and silicon moulding.
Learn about the different types of additives and their uses.
Explore how processing impacts polymer morphology and part performance.
Examine the heat transfer process for thermoplastics.
Explore how material mixing, dosing and drying impact processing and performance.
Learn how thermoset polymers are processed.

- Date Semester 1: Thursday 15th Friday 16th April 2021, 9:00am 4:30pm Semester 2: Thursday 4th – Friday 5th November 2021, 9:00am – 4:30pm
- Venue...... Ellerslie Event Centre, 100 Ascot Avenue, Ellerslie, Auckland.
- Audience ... This module is suitable for those in plastics design, operational, production or technical sales roles within the plastics industry or those who specify the use of plastics materials for their organisation.

"Very informative, speakers very professional and knowledgeable"

"Well presented and at an appropriate level... excellent and made it easy to understand"

DDSP Design

Learn how to ensure your plastic parts are of a high quality and manufacturable. This module explores the design rules that contribute to good part design for plastics from both a manufacturing and an environmental perspective. Design for more advanced manufacturing techniques is examined. Includes good tool design, prototyping, simulation and 3D printing.

Venue...... Ellerslie Event Centre, 100 Ascot Avenue, Ellerslie, Auckland.

Audience ... This module is suitable for those in plastics design, operational, production or technical sales roles within the plastics industry or those who specify the use of plastics materials for their organisation.

REGISTRATION

I/We will be attending the course:

Semester 1 2021 DDSP Introduction: DDSP Polymers: DDSP Processing: . DDSP Design:	Course Dates moved in February/March due to Covid LockdownCosts are GST ExclusiveCosts are GST ExclusiveStars are GST Exclusive
Semester 2 2021 DDSP Introduction: DDSP Polymers: DDSP Processing: DDSP Design:	Costs are GST Exclusive Friday 10th September 2021
Name(s)	
Company	
Address	
Phone	Email
Special dietary requirer	nents:
Total amount paid \$	(If paying by credit card please add an additional 3%)
 □ Credit Plastics NZ base □ Visa □ Mase 	ank account: ANZ. Auckland 01 1839 0035879 00 stercard
Name on card	Number on card
Expiry date/	Signature
Send to: Plastics New	Zealand PO Box 76378, Manukau City, Auckland 2241. Phone 09 255 5662 ddsp@plastics.org.nz