

PPD Session Online Schedule

Session 1 – Introduction to Plastic Materials, nature & properties explained from a design perspective.

Session 2 – Nature of Polymer Flow, flow properties, shear effect & pressure drop calculations covered.

Session 3 – Polymer Thermal Characteristics, thermal properties, shrinkage, carbon footprint & stressing.

Session 4 – Polymer Design Requirement Spec, inc, mechanical, thermal, chemical, aesthetic properties covered.

Session 5 – Injection Moulded Part Design 1, inc, process theory, mould designs for different applications and machine layouts.

Session 6 – Injection Moulded Part Design 2, inc, gate selection, point of balance, drafting, wall thickness, etc , covered.

Session 7 – Injection Moulded Part Design 3, inc, good and bad injection moulded product design practices explained.

Session 8 – Injection Moulded Part Defects, explanation of product design, mould design, processing and polymer related defects explained.

Session 9 – Blow Moulding & Product Design, inc, BM processes & product design requirements.

Session 10 – Extrusion 1, inc, Process Overview, products, production lines, polymers and technology explained.

Session 11 – Extrusion 2 - Profile Design, inc, product design criteria, profile types and additive /property modification additives explained.

Session 12 – Vacuum Forming Overview, inc, basic process and processing techniques explained.

Session 13 – Vacuum Forming – Product Design & mould tool design requirements explained.

Session 14 – Cellular Plastics – Foam processing techniques and the properties of components explained, inc, gas injection techniques and applications.

Session 15 – Polymer Decoration & joining techniques, inc, colouring, metalization, foiling, painting , adhesives and polymer welding techniques explained.

Session 16 – Design Project Management, inc, feedback loops, tier project management, use of FEA, information gathering, testing, etc, explained.

Session 17 – Polymer Product Prototyping methods, inc, free form techniques, printing, SLA, SLS, low cost tooling, etc, explained

Session 18 – New Part First Off Inspection, Fault Identification, Appraisal, modification, inspection methodology explained.

Online Course Format: Each session is 1 hour each

Platform: Microsoft Teams

Date	Session Number	Time
09 Feb 2021	1	09:00 - 10:00
	2	10:30 - 11:30
	3	12:00 – 13:00
10 Feb 2021	4	09:00 - 10:00
	5	10:30 - 11:30
	6	12:00 – 13:00
11 Feb 2021	7	09:00 - 10:00
	8	10:30 - 11:30
	9	12:00 – 13:00
16 Feb 2021	10	09:00 - 10:00
	11	10:30 - 11:30
	12	12:00 – 13:00
17 Feb 2021	13	09:00 - 10:00
	14	10:30 - 11:30
	15	12:00 – 13:00
18 Feb 2021	16	09:00 - 10:00
	17	10:30 - 11:30
	18	12:00 – 13:00

Plastic Part Design Online Programme with Peter Cracknell

9, 10, 11 February and 16, 17, 18 February 2021

Training Programme

R8 200 per delegate

REGISTRATION FORM

Please complete this registration form and email to: elmarie.botha@plasticssa.co.za

For further information kindly contact Kirtida Bhana: Kirtida.bhana@plasticssa.co.za,
or Cell No.: 082 322 0117

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An invoice will be generated upon receiving this registration form