

Course Information

injection moulding driver licence®

Course Fee : RM 3,350 per student excludes GST

Time Schedule:

Day 1 9:00 ~ 17:00

09:00 Introduction of participants

Pre test

History of Plastics

Material Science

10:00 Coffee break

Material Science

12:00 Lunch Time

Injection Moulding Machine

15:00 Coffee break

Process

17:00 End

Day 2 9:00 ~ 17:00

09:00 Periphery of an Injection Moulding Machine

10:00 Coffee break

Periphery of an Injection Moulding Machine

12:00 Lunch Time

Mould Technology

15:00 Coffee break

Moulding defects

16:30 Summary of Day 1 & 2

Examination

Conclusion

17:00 End

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Course	Course 1
Course Name	Injection Moulding Technology Basic
For	Parts designer, mould designer, mould maker, machine operators, plastic moulder, quality assurance personnel, production planner, shift supervisor, technical support, purchasing and sales personnel.
Target	Participants will gain knowledge on plastic material, processing data, material drying, injection moulding technology, filling row, moulding machine and mould technology, and injection moulding faults.
Requirement	No

Group	Content
Material	Foundation knowledge of plastic materials • structure and processing of thermoplastics, thermoset, elastomers and thermoplastic elastomers • standard thermoplastics • masterbatch
Machine	Function sequence of the injection moulding machine • types of moulding machines • the injection unit • system, specific and cavity pressure
Mould	Types of moulds • construction of a single component mould • three-plate mould • hot runner mould • types of gates • gate balance • venting • demoulding
Peripherals	Material preparation and conveying 1 • colour and additive mixing 1 • temperature control 1
Process	Melting process • importance of back pressure • achieving good material homogeneity • how to get a source flow • considerations during the injection process • relation between material type and moulding process • pvT diagram • filling row analysis • cushion
Case studies	8 errors in moulding parts



Bernd Fred Johannson (Dipl. Ing.) **Licensed Trainer / Accreditor**

Bernd graduated in Darmstadt, Germany in 1965 with a Dipl. Ing. Engineering.

His entire career has been in the plastic industry, taking leading positions in fields like plastic resin manufacturing, automotive moulding, plastic packaging, and production automation. It is no surprise that Bernd has diverse expertise in areas such as rotation molding, slush molding, injection molding, thermoforming, thermoset material manufacturing, PU foaming and mold making.

For over 25 years, Bernd is a member of VDI, the Association of German Engineers, and has patents and utility models in Injection Molding and Plastics Processing. He is well known in the lecture circuit, and has co-wrote for trade publications, including:

- Co-Author "Plastics Machine Guide", Issue 4, Carl Hanser Verlag, ISBN3-446-22042-9
- Co-Author "Optimization of Injection Molding", Carl Hanser Verlag, ISBN978-3-446-40977-4

Besides busy with Baltic Plastics Academy, Bernd is currently active in Senior Experten Service (SES) as a worldwide Senior Consultant Engineer for Plastics Processing Optimisation.



Wang Lo Chang, Robert Licensed Trainer / Accreditor

Robert graduated from Taiwan's Far East University as a Master of Mechanical Engineering. He has over 20 years of experience in the plastics industry, taking on senior roles in several East Asian companies. This vast experience ranged from management functions to mould making operations to moulding productions.

Throughout his career, Robert has been involved in education for the plastics industry. He was mentor and trainer for his staff in the early years. In 2002, he accepted an appointment by Taiwan's National Development Council to conduct plastics injection courses in the Dominican Republic.

Since 2010, besides serving as Board Chairman for a moulding company, Robert has also been conducting plastics injection courses at several universities in Taiwan, including at his alma mater, Far East University.

Roadmap

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