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# **Demag** Plastics Group

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# **2009**

# **TRAINING COURSES**

*Demag Hamilton Limited, Hamilton House, Broadfields, Bicester Road, Aylesbury, Bucks, HP19 8AY  
Telephone 01296 318200 Fax: 01296 426222*

## Injection Moulding Training Courses

### Our Trainer



**John Hind**, who covers Process Engineering and Training, qualified originally as a chemist and later as a manufacturing engineer. He has a long history in the plastics industry, concentrating on injection moulding. A few years ago he added maintenance training to his portfolio of skills.

His experience in materials, processing machinery, automation and tooling together with a genuine enthusiasm for sharing his knowledge and the ability to impart it at all levels from shopfloor to boardroom make him a natural trainer.

### Our Trainees

You naturally expect courses given by a professional, experienced trainer who keeps up with the technology. Our regular, structured courses fulfil these expectations and cover all aspects of injection moulding technology. Demag Hamilton have built up an enviable reputation as the best trainers in the UK injection moulding industry.

Trainees coming through the doors at Hamilton House include senior management executives and machine operators, administrators and toolmakers, quality assurance managers and fitters. Whatever their background, we can accommodate their needs within our training programme. Course delegates are sent by blue-chip multinationals as well as trade moulders with just a couple of small machines. And, we are proud to say, they keep on coming back.

### Our Courses

In this brochure you will find details of our 2009 Training Programme, covering processing, optimisation, maintenance, materials, etc. If you can't see exactly what you need, do contact us and we can tailor-make a training course to suit your needs.

## Booking a course

Course bookings must be **confirmed** with an **order number** before commencement of course.

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## Provisional bookings

Provisional bookings can be held for a maximum of 2 weeks after which time they must be confirmed with an order number or it will be assumed that the booking is no longer required.

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## Course Confirmation

Official confirmation of course bookings will be sent 4 weeks before course commencement.

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## Cancellation

In order for our courses to run, we require a minimum of 3 delegates booked per course. If, however, this number is not met, Demag Hamilton reserve the right to cancel the course up to 4 weeks prior to course commencement.

Should the course be cancelled by the customer within **10 WORKING DAYS** of course commencement the full cost of the course will be invoiced, unless the candidate is enrolled on the next course.

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## Certificates

Certificates are issued to candidates on successful completion of the course.

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## Start times

Most courses commence at 10.30 a.m. on the first day and 9.00 a.m. thereafter. The exceptions to this are the Optimisation courses, T.02 and T.22, which commence with lunch at 1.00 p.m.

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## Transport

Transport is not provided by Demag Hamilton Ltd.

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## Hotels

A list of local hotels is enclosed for your information. Demag Hamilton Ltd. does not make hotel bookings for course delegates.

## Prices of Standard Courses at Aylesbury

Course Ref:	Course	<i>Price per Delegate</i>
<b>T.01</b>	ErgoTech machine setting (2½ days)	£495
<b>T.02</b>	ErgoTech Optimisation (2½ days) (on completion of T.01)	£495
<b>T.03</b>	Maintenance ET Machines - ET25-110 & ET125-2000 (5 days)	£880
<b>T.06</b>	Recognition & Rectification of Moulding Faults (2 days)	£395
<b>T.07</b>	Processing for Quality (5 days)	£880
<b>T.08</b>	Crane & Tool Handling (2 days)	£395
<b>T.14</b>	Materials Technology (5 days)	£880
<b>T.16</b>	Appreciation of Injection Moulding (2 days)	£395
<b>T.24</b>	Two-shot moulding	<i>on request</i>
<b>T.25</b>	Maintenance maXX machines	<i>on request</i>

**NOTE: Course start times are 10.30hours on Day 1 and 09.00 on other days, except for T.02 which starts at 13.00 hours Wednesday**

**Course fees include the manual, lecture notes and lunches but not VAT**

## CUSTOMER TRAINING - COURSE DATES 2009

Please contact Carol Keen on 01296 318241; [carol.keen@dpg.com](mailto:carol.keen@dpg.com) for further details of our training courses or to discuss any bespoke training requirements for which we would be pleased to offer a proposal & quotation.

	COURSES	Days	Cost	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
T.01	ErgoTech Machine Setting	2½	£495	26-28		09-11			01-03			21-23		09-11	
T.02	ErgoTech Optimisation	2½	£495	28-30		11-13			03-05			23-25		11-13	
T.03	ErgoTech Maintenance / Fault-finding	5	£880		16-20		20-24		22-26				12-16		07-11
T.06	Recognition & Rectification of Moulding Faults	2	£395												
T.07	Processing for Quality	5	£880							13-17					
T.08	Crane & Tool Handling	2	£395	<b>on request</b>											
T.14	Materials Technology	5	£880				27-01								
T.16	Appreciation of Injection Moulding	2	£395	<b>on request</b>											
T.24	Two-shot Moulding	5		<b>on request</b>											
T.25	maXX Maintenance / Fault-finding	5		<b>on site only</b>											

# Course Contents

## Processing courses

### **T.01 ERGOTECH MACHINE SETTING (NC4) ERGOTECH MACHINE SETTING (NC5)**

Intended for setters and technicians, this two-and-a-half day course enables ErgoTech machine users to become familiar with and competent with the use of the ErgoTech machine control system. By the end of this “hands-on” course, delegates will be able to set a machine from first principles, appropriately for the mould and material being processed. The course runs from Monday morning to Wednesday lunchtime.

### **T.02 OPTIMISATION OF ERGOTECH MACHINES (NC4) OPTIMISATION OF ERGOTECH MACHINES (NC5)**

This course is of two-and-a-half days’ duration, and is intended for competent ErgoTech machine users wanting to achieve the maximum process reliability. It continues naturally from the ErgoTech Machine Technology course. A number of tasks are completed by delegates as they achieve a step by step optimisation of the moulding process. The course runs from Wednesday lunchtime to Friday.

***To ensure trainees achieve the objectives of the course, completion of the Introduction course is a condition for entry onto the Optimisation course.***

### **T.06 RECOGNITION AND RECTIFICATION OF MOULDING DEFECTS**

Intended for setters and technicians, this two day course discusses the causes and effects of faulty machine settings, material handling, processing and tool design. Examples of defective mouldings will be available and moulding defects will be produced and eliminated using ErgoTech machines

### **T.07 PROCESSING FOR QUALITY**

This course is of five days duration and the accent is on producing quality. It will be relevant to engineers, senior setters, and technicians already experienced in injection moulding, who are interested in developing a deeper understanding of the subject. The course includes both theoretical and practical work.

The course considers the machine attributes that affect quality and productivity, machine optimisation, the processing characteristics of different polymers and polymer types, monitoring of processing variables, the effect of mould design on quality, machine specification and SPC.

Revision of moulding techniques and good mouldshop practice are included in the practical sessions.

## Processing courses cont'd.

### **T.08 CRANE AND TOOL HANDLING**

Intended for beginners in the mould-shop as well as setters and technicians who need to gain a crane safety certificate, this two day course starts with crane user certification (in collaboration with Dematic Cranes Ltd) and goes on to include mould installation into an ErgoTech injection moulding machine.

### **T.14 MATERIALS TECHNOLOGY**

This course is of five days duration, specifically aimed at processing technicians, engineers, setters and moulding shop personnel wanting to broaden their knowledge of polymeric materials.

Manufacture, characterisation, processing behaviour, structure and morphology and the recycling of engineering and commodity polymers will be covered.

### **T.16 APPRECIATION OF INJECTION MOULDING**

This course is aimed at personnel whose usual area of work lies outside the mouldshop. It is of two days duration and consists of lectures and practicals covering the important aspects of injection moulding technology to provide an overview of the fundamentals and processing procedures. The course covers materials technology, machine attributes and construction, basic machine setting procedures, process variables, health & safety requirements and mould technology.

### **T.24 INTRODUCTION TO TWO-SHOT MOULDING**

Intended for setters and technicians, this three day course enables ErgoTech machine users to become familiar with and competent with the use of a two-shot injection moulding machine. By the end of this "hands-on" course, delegates will be able to set a machine from first principles, appropriately for the mould and materials being processed.

## Maintenance Courses

### **T.03 MULTI-SKILL MAINTENANCE COURSE FOR ERGOTECH MACHINES - ET25-110 Direct Lock & ET125-2000 Toggle Lock**

This special five day multi-skilled maintenance course is suitable for skilled staff from either a mechanical or an electrical discipline. The course is designed to give delegates theoretical and practical fault finding experience on the hydraulic control and mechanical systems of both the direct and toggle lock ErgoTech machines.

### **T.25 MULTI-SKILL MAINTENANCE COURSE FOR ERGOTECH maXX MACHINES – ET2000 – ET3000 maXX**

This special five day multi-skilled maintenance course is suitable for skilled tradesmen from either a mechanical or an electrical discipline. The course is designed to give delegates theoretical and practical fault finding experience on the hydraulic control and mechanical systems of the direct lock ErgoTech maXX machines.

*N.B.: This course can only be given on site at the customer's premises.*

# Tailor-made Courses

## COMPANY BASED

Cost of the course is based on an hourly rate of £95, plus travel at £65 per hour. Subsistence and hotel accommodation are not included. For Scotland, N. Ireland, Eire, Europe and worldwide, the stated rate is also exclusive of flights and car hire.

*Maximum number of delegates per course is 8.*

A successful on-site course requires 1 to 2 moulding machines with suitable tools to be set aside for training purposes throughout the duration of the course, (the number of machines depends on the number of trainees). In addition, a lecture room and the absolute understanding that trainees are not available for any other activities.

## AYLESBURY BASED

£840.00 per day (Maximum of 6 attendees)

## MOULD PROVING and TROUBLESHOOTING SERVICE

Machine time - £60 per hour for duration of the mould trials.

Technician time - £105 per hour.

## MACHINE & PROCESSING TRAINING

As per Demag Hamilton standard rate for training engineers:-

Per day	£95.00 per hour plus £65 per hour travel costs.
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After midnight and at weekends	Price on application
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**The above rates do not include subsistence or hotel accommodation.**

## Hotels – Aylesbury Area

Please see overleaf for a location map including hotels:-

<p><b>1) Travel Inn</b> Horse &amp; Jockey Public House Buckingham Road Aylesbury Bucks HP19 9QL</p> <p>Telephone:           01296 330424 Fax:                    01296 330432</p> <p><i>Approx. 15 mins walk from Demag</i> Website: <a href="http://www.premiertravelinn.com">www.premiertravelinn.com</a></p>	<p><b>2) Duck Inn</b> London Road Aston Clinton Aylesbury Bucks HP22 5HP</p> <p>Telephone:           01296 632777 Fax:                    01296 632685 <b>Central Res:        0845 1551551</b></p> <p><i>Approx. 12 mins drive from Demag</i> Website: <a href="http://www.innkeeperslodge.com">www.innkeeperslodge.com</a></p>
<p><b>3) Holiday Inn</b> Garden Court Buckingham Road Watermead Aylesbury Bucks</p> <p>Telephone:           01296 398839 Fax:                    01296 394108</p> <p><i>Approx. 25 mins walk from Demag</i></p>	<p><b>4) Travel Inn</b> Tring Hill Tring Herts HP23 4LD</p> <p>Telephone:           08701 977254 Fax:                    01442 890787</p> <p><i>Approx. 20 mins drive from Demag</i></p>
<p><b>5) The Five Arrows Hotel</b> High Street Waddesdon Nr Aylesbury Bucks</p> <p>Telephone:           01296 651727 Fax:                    01296 658596</p> <p><i>Approx. 10 mins drive from Demag</i></p>	<p><b>6) The Lion Waddesdon</b> 70a High Street Waddesdon Nr Aylesbury Bucks</p> <p>Telephone:           01296 651227 Fax:                    01296 658894</p> <p><i>Approx. 10 mins drive from Demag</i></p>

# Location Map

The following map shows the location of Demag Hamilton Ltd. and also the location of the suggested hotels from the previous page:-

