



BRITISH ELECTROSTATIC CONTROL ASSOCIATION

**ESD Control in Practice:
Using the 61340-5-1:2007
standard**

A one day seminar

Thursday 21st May 2009

at

Worcester Rugby Club

Hindlip Lounge

**Sixways Stadium, Warriors Way
Worcester, WR3 8ZE**

Learn about;-

- ✓ The importance of effective ESD prevention
- ✓ The principles of ESD prevention
- ✓ The importance of controlling body voltage
- ✓ Implementing ESD prevention under BS EN 61340-5-1:2007
- ✓ Choosing equipment and materials for the ESD Protected Area
- ✓ Tailoring the ESD Control Program
- ✓ Who and how to train for ESD protection
- ✓ Practical auditing and testing

Only £190 (+VAT) per delegate with discounts for group bookings, BECA Members and Associate Members.

(See booking form on the back page)

**Places are limited - early bookings avoid
disappointment!**

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Summary

The new version IEC 61340-5-1 was published in August 2007 as a world-wide ESD standard, replacing the previous EN 61340-5-1:2001 in Europe. Our Keynote speaker Pasi Tamminen of Nokia shows how this standard is now followed by Nokia, while also including non-standard ESD measures required by Nokia's products and production technologies in their ESD Program.

Our panel of BECA expert speakers will show how the principles of successful ESD prevention and management are implemented in the 61340-5-1:2007 standard. Workshop sessions focus on the key requirements of the new standard, choosing equipment and materials for the ESD Protected Area, practical test methods and auditing techniques. A panel discussion session will provide a forum for delegates to discuss ESD protection issues with our experts.

The seminar will provide an opportunity for those experienced in this field to update their knowledge of ESD prevention using the current standards and will help newcomers to the subject to gain an understanding of ESD prevention practice.

The basic cost is £190 + VAT per delegate (with discounts for BECA Members, Associate Members and group bookings), to include delegate pack, refreshments and buffet lunch.

Further information is available from:-

BECA

Heathcote House

136 Hagley Road

Edgbaston

Birmingham

B16 9PN

Web site: www.beca.co.uk

Tel: 0121 454 4141. Fax: 0121 454 4949.

Email: sp@heathcote-coleman.co.uk

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ESD Control in Practice: Using the 61340-5-1:2007 standard

Programme

Session	9.30 – 10.00	Registration and coffee	
	10.00 – 10.05	Welcome	Jeremy Smallwood, BECA Chairman
A	10.05 – 10.20	Why do we need ESD prevention?	Dave Thompson
B	10.20 – 10.40	The three plans and seven habits of a highly effective ESD program	Jeremy Smallwood
C	10.40 – 11.20	Body voltage – highs and lows	Dave Hawkes
	11.20 – 11.40	Coffee	
D	11.40 – 12.30	Controlling ESD/EOS risks in a high volume electronics manufacturing Modern electronics products containing both ESD sensitive components and complex mechanics are challenging to manufacture from an ESD protection view. Nokia's basic ESD protection follows IEC61340-5-1 but non-standard process and product specific methods are also required.	Keynote Speaker Pasi Tamminen Nokia Corporation
E	12.10 – 13.00	Workshop Session A: Requirements for the EPA	Geoff Norman
	13.00 – 14.00	Lunch	
F	14.00 – 14.30	Workshop Session B: Tailoring for ESD-protection.	Dave Hawkes
G	14.30 – 15.00	Workshop Session C: The ESD Training Plan: Who and How?	Dave Thompson
	14.50 – 15.10	Coffee	
H	15.15 – 16.00	Workshop Session D: The Compliance Verification Plan: Auditing and testing.	Jeremy Smallwood
	16.00 - 16.30	Discussion Panel.	The presenters
	16.30	Closing remarks.	Jeremy Smallwood

Programme subject to change without prior notice

Pasi Tamminen - biography

Pasi Tamminen received the M.Sc degree in Electronics Engineering from Oulu University, Faculty of Technology, Finland in 1997. He worked for NOKIA Networks for four years on new electronics production technology and Design for Manufacturability. In 2001-2004 he was with VTT Technical Research Centre of Finland, where he worked in a group developing Risk Management and ESD protection control methods for electronics industry. He received NARTE ESD Engineer certification in 2004. Since the beginning of 2005 he has worked for NOKIA, where he is controlling electrostatic, clean manufacturing and EMC related topics in manufacturing and system design phase.

DELEGATE BOOKING FORM

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Name	Job description	No. of delegates	Rate per person
		1	£190.00 excl. VAT £218.50 incl. VAT
		2	£180.00 excl. VAT £207.00 incl. VAT
		3-4	£170.00 excl. VAT £195.50 incl. VAT
		5+	£160.00 excl. VAT £184.00 incl. VAT

Payment calculation:

Qty:	Item:	@ Price:	Subtotal Amount:
	Non-member Delegates		
	BECA Member delegates	£90.00 excl. VAT (£103.50 incl. VAT)	
	BECA Associate Member delegates	£100.00 excl. VAT (£115.00 incl. VAT)	
	**BECA Associate Membership fee and Seminar package	£150.00 excl. VAT (£172.50 incl. VAT)	
Total amount:			

** Associate Membership (AM), booked with this seminar, extends to 31st December 2009 giving an immediate saving of £40.00 + VAT over non-member delegate rate. Renewal in January 2010 would give AM delegate rate entry to 2010 Seminars.

Company:	
Address:	
Tel:	
Fax:	
Email:	

Please make cheques payable to: British Electrostatic Control Association

Return with completed form to:

BECA, Heathcote House, 136 Hagley Road, Edgbaston, Birmingham, B16 9PN

Fax: 0121 454 4949

Email: sp@heathcote-coleman.co.uk