



**DAVID K SMITH**  
**CURRICULUM VITAE**



**DIRECTOR**

**PERSONAL DETAILS**

PROFESSIONAL MEMBERSHIP: **BSc (Hons) CEng FIMechE FCIBSE Tech IOSH LCC**  
AND QUALIFICATIONS

TELEPHONE No: Work 01276 476237  
Mobile 07939 511157  
Email [david.smith@tsaservices.co.uk](mailto:david.smith@tsaservices.co.uk)

DATE OF BIRTH: 2 January 1957

NATIONALITY: British

**PARTICULAR EXPERIENCE**

**QUALIFICATIONS:**

Graduated with 2(1) honours **Degree in Environmental Engineering** (1979)  
**38 years experience** within the Building Services, Building Energy, and Property H&S fields  
**NEBOSH** Health & Safety plus **Tech IOSH** membership  
Low Carbon Consultant **LCC**  
**Certified EPC Part L assessor**  
**Authorising Engineer** for high risk Mechanical Systems (steam, HTHW, pressure systems), Confined Spaces. Lifts & Ventilation

**GENERAL EXPERIENCE:**

Practically versed in all aspects of mechanical building services design, installation, commissioning, management, refurbishment & construction.

Comprehensive knowledge and experience within the mechanical building services industry including Design, Facilities Management, Health & Safety, Energy Conservation, Commissioning, Auditing, Fault Finding, litigation & Legislative Compliance.

Authorising Engineer responsible for implementing and auditing Safe Systems of Work for Mechanical systems, Ventilation and Confined Spaces.

High standard of IT skills which play an important role in all TSA work.

Particular interests in environmental issues, technology, optimum design solutions, low energy applications, maintenance, plant testing & building services performance.

**EMPLOYMENT HISTORY:**

**4 years** with a multi-disciplinary Practice including 7-month secondment to Malaysia  
**2 years** overseas (Copenhagen & Bangkok) designing / Refurbishing Thai Airways Catering Centres  
**9 years** as **Associate** for an 80-strong MEPH Consulting Practice in West London  
**3 years** as **Technical Director** for large FM Consultant seconded to British Airways Property  
**20 years** as **Mechanical Director** / co-founder of Technical Support Associates

### EXPERT WITNESS:

66 Chiltern Street:	Costain v MEPC (Solicitors: Dibb Lupton Broomhead) £1.76m Court Order for Pipework leaks, VAV design issues causing insufficient heating, psychrometric issues causing condensation, insufficient cooling, fresh air controls, site tests & remedial works
Belgrave Square:	Solicitors: Mischon de Reya / Hallet & Co) £47K Court Order for non payment of Contract
Talbot Road:	Tenant / Landlord dispute concerning cooking smells from adjacent lets. Problem found & resolved without Court Order
Fallowfield:	Owner / Contractor dispute concerning HWS pressures via un-vented HWS system. Problem found & resolved without Court Order
Cranbourne:	Owner / Contractor dispute concerning HWS pressures via un-vented HWS system. Problem found & resolved without Court Order
Cadogan Square	Neighbour disputes re saniflow leaks. Court adjudication to replace with gravity drainage

### HEALTH & SAFETY:

Authorising Engineer Mechanical (HTHW, Steam, Refrigeration, Mechanical high risk systems plus Ventilation. Lifts and Confined Spaces) since 1996. Has acted in this role for British Airways, BBC, DVLA, Interserve, Norland, Servest, Skanska, Newcastle Trust, Norwich Union (LST managed properties), Cumberland infirmary, St George's Hospital & Skanska

General Health & Safety work has included:

Awareness training	Reviewing / compiling Safety Files
CDM Principal Designer (M&E Services)	Risk assessments
Confined Space certified	Safe Systems of work for Mechanical & CS
Control of Contractors	SOPs for Client operations
H&S Arrangements & Procedures	Surveys of commercial properties
H&S Policies	Workplace Risk Assessments
Incident Investigation	Audits
Permit to Work procedures	

### PROJECTS:

Airports	Headquarter Buildings	Offices
Banks	Health Care Homes	Prisons
Building Societies	Hospitals	Schools
Cargo Handling Centres	Industrial Buildings	Shopping Centres
Catering Centres	Institutions	Shops
Civic Buildings	Kidney Dialysis Units	Theatres
Clean Rooms	Kitchens	Universities
Data Centres	Laboratories	
Endoscopy Units	Museums	

### SPECIALITIES:

Compliance	Guidance	Maintenance
Energy	Health & Safety	Plant performance
Expert Witness	Legislation	Record Information
Facilities Management	Litigation	

### DESIGN WORK:

Air Conditioning	Chillers – scroll	Fans
AHUs	CHP	Free cooling
BMS	Close Control Environments	Heating Systems
Boilers - LTHW	Cooling Towers	Heat Pumps
Boilers – MTHW	De-superheaters	Hoods
Boilers - Steam	Displacement Ventilation	HVAC
Cassaire systems	Dual duct	Induction Unit
Chillers – absorption	Ductwork – high velocity	Recuperators
Chillers – centrifugal	Ductwork – low velocity	Refrigeration
Chillers – reciprocating	Evaporative Cooling	Run-around coils
Chillers – screw	Fan Coil Units	Split / Multi-split

Thermal Wheels  
Variable speed motors  
VAV

Ventilation  
Versatemp  
VRF

VRV


## **EMPLOYMENT HISTORY**


**July 1997**

### **TECHNICAL SUPPORT ASSOCIATES**

#### **Position: Director**

Duties: Founding member of TSA. Responsible for all MEPH & environmental project work and Electronic Record Information.

**PROJECT WORK** has included commercial VAV  projects, Micro-CHP installation, gas turbine CHP with absorption chillers, displacement “sock” ventilation, FCUs, boiler replacements, ventilation, energy surveys, solar heating, plant fault diagnostics, controls witnessing, boiler replacements, plus conventional HVAC projects

 Electronic Record Information has involved the development of a web-based record management system suitable for all building information including switchable drawing layers & all property information viewed through free software.

**H&S WORK** has included surveys of commercial properties, risk assessments, compilation of SOPs, AE Audits, CDM Coordination & Authorising Engineer duties (HTHW, Steam, Refrigeration & Mechanical high risk systems + Ventilation and Confined Spaces) since 1996. Certified for Confined Space entry since October 2000.

**ENERGY WORK** numerous Energy surveys, calculations and analysis including Carbon Trust work. All major project work involves energy appraisals, heat recovery & sustainability

**1995 - 1997**

### **FBA - BRITISH AIRWAYS TECHNICAL SUPPORT GROUP**

#### **Position: Technical Director**

Duties: Responsible for all technical issues related to the management of the British Airways property portfolio, comprising over 400 UK buildings exceeding 1 million square metres. Working within the British Airways Property group developing ideas and procedures to streamline Property's operations

**PROJECT WORK** included:

Compiling **Standards & Guidance** for all property issues

Specifying and managing **surveys** of the Building Services installations for all principal buildings including:-

- Barcoding all assets and retrieving electronic data via PSION computers
- Compiling descriptions of all the services installed suitable for O&M Manuals
- Compiling BREEAM equivalent assessments via PSION computers
- Providing condition reports and budget estimates for remedial works
- Commenting on benchmark energy figures

**Project reviews/audits** of major capital investments including £250m new HQ, £200m Cargo Depot, £60m Data Centre, etc.

**Energy analysis**, appraisals, surveys, and benchmarking.

**Expert Witness** reports / investigations for properties in Belgrave Square, Pinner, & Stanmore including court adjudication.

**Feasibility Studies** including financial LCC/IRR appraisals for:

- Maintenance Base Heating - 14 MW gas-fired boiler installation, saving £1.2m /year fuel costs
- CHP options via contract energy management
- Data Centre air conditioning replacement
- Chiller replacements
- Reverse Osmosis water treatment plant

**Planned Preventative Maintenance** - developed costing methodology for all major FM Contracts, via:

- Scheduling PPM Task Sheets to each asset
- Agreeing time (and cost) required for each Task Sheet
- Developing computer analysis software to assess overall cost requirements
- Obtaining feedback/input from Building Facilities Managers

**Health & Safety** - developed revised Permit to Work procedures and compiled Safe Systems of work for all mechanical & electrical high-risk areas. Compiled property procedures for all Health & Safety issues in conjunction with BAP's Safety Department. AE Mechanical & CS for BA portfolio. Authorising Engineer duties.

**Environmental** - heavily involved in all environmental aspects of British Airways' Property organisation. Compiled **systems & guidance** on all environmental issues. Implementation of the removal/replacement of all existing CFC centrifugal chillers.

1985 - 1995

WATKINS PAYNE PARTNERSHIP

**Position:** Associate

**Duties:** Fully responsible for project conception, design, supervision and Client liaison. Reporting to Partner where necessary.

**PROJECT WORK** included:

**Scheme designs**, calculations and supervision & management of design project from concept to completion.

**Project Management** including formalisation of client brief, scheme feasibility/design, tender negotiations, co-ordination, programming site management, contract negotiations, co-ordination, programming site management, contract negotiations, cost and budget control, contractual disputes, final accounts, interim payments and client satisfaction. Multi-disciplinary, although mechanically biased technically.

**Survey work**, Feasibility Studies and Reports. Communications, correspondence and meetings with Clients, Contractors and design team members.

**Computer use** of spreadsheets, databases, commercial building services software (Cymap/Amazon) and AutoCAD.

**Management** of 15-20 Engineers within a multi-disciplinary design group, including group resourcing, staff management, administration and partnership business development.

**Fee negotiation** and control via Partners.

**Projects:** Range between speculative office designs, computer installations, specialist fitout works, retail, research buildings, prisons, litigation works, health care homes, museums, shopping centres, refurbishments and banks.

1983 - 1985

PER B. SCHLEITER A/S, COPENHAGEN, DENMARK

**Position:** Senior Engineer

**PROJECT WORK** included the full design of all mechanical services installations for a 30,000 m<sup>2</sup> Thai Airways Flight Kitchen in Bangkok, Thailand (+ refurbishment of existing facility). The Flight Kitchen accommodated hot kitchens, cold kitchens, food preparation area, stores, confectionery and bakeries, plus an administration block.

Services included:

Full **air-conditioning** to the Kitchen preparing 22,000 meals per day  
Large **cold holding and freezer room** installations including R502 and brine systems  
Hot and cold services  
Central cooling plant design  
22 no. air handling systems including heat recovery thermal wheels  
Design co-ordination with architects, structural engineers and equipment designers.

**Site supervision** in Thailand of an upgrading contract using local labour and plant of the existing 13,000 m<sup>2</sup> Flight Kitchen, including client liaison, contractor organisation, co-ordination of design, supervision of installation, testing and commissioning, selection and utilisation of locally made plant, supervision of kitchen equipment installation.

Co-ordination with Copenhagen office/staff. Running Thai office, along with a Structural Engineer and local staff.

1979 - 1983

ROBERT, MATTHEW, JOHNSON-MARSHALL & PARTNERS

**Position: Mechanical Engineer**

Duties: Manual/computer calculations; building performance/energy predictions; Building Services design; site supervision; commissioning and testing; fault finding/diagnosis, drawing; project running; cost control/interim payments; writing computer programs; site surveying; design co-ordination; low-energy designs; sprinkler designs.

Projects: Government Training Centre, Malaysia (7-month posting), Banks, NFU HQ, Municipal Buildings, Offices, Institute of Physics, Financial Training Air Conditioning

1978 - 1979

ADAMS GREEN & PARTNERS

**Position: Junior Engineer**

Duties: Preparation of drawings; manual calculations; equipment selections; plant sizing; site surveying

Projects: Southampton University refectory, Housing, snagging

1976 - 1977

BCM HEATING COMPANY LIMITED

**Position: Junior Engineer**

Duties: Tendering; preparing BOQ's and SOR's; draughting; material ordering; working drawing co-ordination; site inspections and three months' pipe fitting on site.

**CPD, TRAINING AND QUALIFICATIONS**

Year	Course	Qualification / Description	Competency / Knowledge Development
1973 June	O Levels	Mathematics, English, Physics, Geography, French, Technical Drawing, Music	Pre-Degree
1975 June	A Levels	Mathematics, Physics, Art	Pre-Degree
1979 June	Degree 4 year: 1975 to 1979	<b>BSc (Hons) degree in Environmental Engineering</b> (Grade 2.1) South Bank University	My Degree covered the fundamental engineering principals of Building Services Engineering including 3-months practical training necessary for Chartered Engineer recognition
1986 June	<b>MCIBSE</b>	Awarded Corporate Membership by CIBSE	Membership was achieved after proving both technical ability and industrial experience
1986 June	<b>CEng</b>	Awarded Chartered Engineer status	Chartered Engineer status was achieved after proving both technical ability and industrial experience
1991 Mar	<b>MI Mech E</b>	Awarded Corporate Membership by I Mech. E	Member of the Institution of Mechanical engineers was achieved after proving both technical ability and industrial experience
1996 March	<b>Authorising Engineer</b>	Authorising Engineer course - WTI	Involvement with high risk mechanical systems such as steam and HTHW required specific training in order to manage the risks safely
1999 June	Authorising Engineer	Authorising Engineer refresher course - WTI	Involvement with high risk mechanical systems such as steam and HTHW requires ongoing refresher training
2000	Various courses	CDM, Business Finance, Capital Planning and Business Case	Various
2000 Oct	<b>Confined Space Entry</b>	Todo Mundo 3 day CS entry course	Involvement with Confined Spaces within buildings required specific training in order to manage the risks safely
2002 May	Authorising Engineer	Authorising Engineer refresher course - WTI	Involvement with high risk mechanical systems such as steam and HTHW requires ongoing refresher training
2002 July	<b>AutoCAD 14</b> City & Guilds – 2D	Guildford Technical College - 1 year evening class	To become a competent user when required 2D version
2003 Jan	<b>Steam Utilisation</b>	3 day course	For steam work at TVC and AP/AE Duties
2004 Aug	AutoCAD 14 City & Guilds – 3D	Guildford Technical College - 1 year evening class	To become a competent user when required 3D version
2004 Nov	Confined Space Entry	Todo Mundo 1 day CS entry course	Authorising Engineer Refresher
2005	Various courses	Various courses on CDM, H&S, Business Finance, Capital Planning and Business Case	General CPD
2005 March	Authorising Engineer	Authorising Engineer refresher course - WTI	Involvement with high risk mechanical systems such as steam and HTHW requires ongoing refresher training
2006	<b>FIMechE</b>	Awarded Fellow Membership by Institute of Mechanical Engineers	FIMechE
2006 Jan	<b>FCIBSE</b>	Awarded Fellow Membership by CIBSE	FCIBSE



Year	Course	Qualification / Description	Competency / Knowledge Development
2006 Feb	<b>NEBOSH</b>	Distance learning 1 year H&S Certificate	NEBOSH within the Construction Industry
2006 March	<b>Tech IOSH</b>	Awarded Technician Membership of the Institution of Occupational Safety & Health	Tech IOSH
2007 Nov	<b>Low Carbon Consultants</b>	2-day course to become an LCC Registered Consultant	LCC
2008 Feb	LCC	Low Carbon Consultant	Part L Certification
2008 March	Authorising Engineer	Authorising Engineer refresher course - Develop	Authorising Engineer Refresher
2008 Dec	<b>DEC</b>	Display Energy Certificate course for DEC Certification	To become DEC Inspector Certified
2008 Dec	<b>TM44 AC Inspector</b>	Air Conditioning Inspector course for TM44 Certification	To become an Air Conditioning Inspector Certified TM44
2008 Dec	Confined Space Entry	Todo Mundo 1 day CS refresher course	Authorising Engineer Refresher Confined Spaces
2009	<b>iSBEM</b>	Course / BRE Certification	To be certified to issue Part L Compliance Calculations
2010 July	IFSM	FRA Certification	Fire Risk Assessment
2011 March	Authorising Engineer	Authorising Engineer refresher course - Develop	Authorising Engineer Refresher
2011 March	<b>EPC</b>	iSBEM levels 3 & 4 (BRE)	Part L Certification
2012 Jan	Confined Space Entry	Safety Mundo 1 day CS refresher course	Authorising Engineer Refresher Confined Spaces
March 14	Authorising Engineer	Authorising Engineer refresher course	Authorising Engineer Refresher
Jan 15	CIBSE	Electrical Engineering	CIBSE 3-day
Oct 15	Confined Space Entry	Safety Mundo 1 day CS refresher course	Authorising Engineer Refresher Confined Spaces
Jan 17	Lift	Authorised Persons course – 3 day	AP Lifts for AE work

**Hobbies:**

Squash (keen player)

Manager of 3 Vintage Squash Teams at Surrey Sports Park (Guildford)

Running, Keep Fit, Circuits, Body Pump

Skiing

Cycling

DIY



## Council for National Academic Awards

DAVID KEITH SMITH

of POLYTECHNIC OF THE SOUTH BANK

has been awarded the degree of  
BACHELOR OF SCIENCE  
with Second Class Honours (1st Division)  
having completed a sandwich course in  
ENVIRONMENTAL ENGINEERING  
and the required period of  
industrial/professional training

10 July 1979



Director

Polytechnic of the South Bank

7

Rooke

Chairman

Edwin Kerr

Chief Officer





The Institution of Mechanical Engineers

**David Keith Smith**

was elected

**FELLOW**

on

The 11<sup>th</sup> January 2006

President

Chief Executive

and is registered as a

**CHARTERED ENGINEER**



# Institution of Occupational Safety and Health

Incorporated by Royal Charter 2003

This is to certify that

**David Smith**

was admitted as a

**Technician Member**

on

**27 March 2006**

Signed on behalf of the Council



Chief Executive



President

Cert No. 102853

This certificate remains the property of the Institution of Occupational Safety and Health and should be returned if requested



nebosh

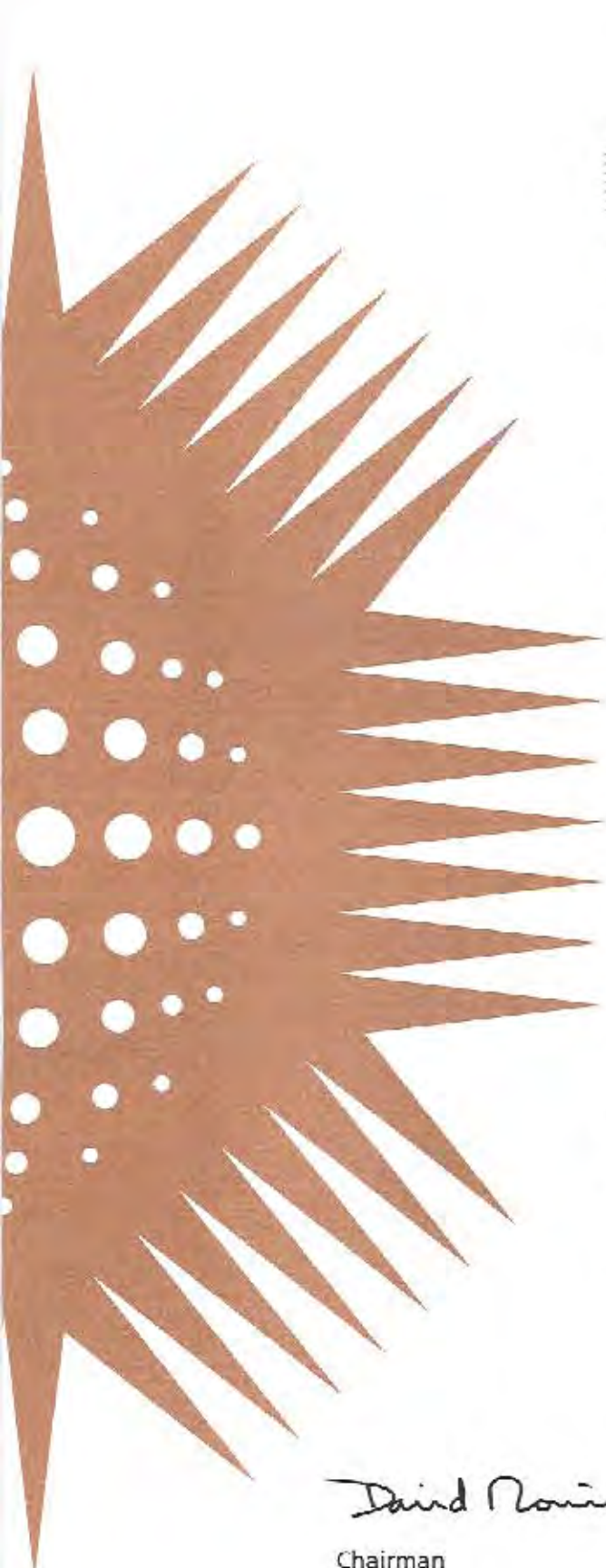
The National Examination  
Board in Occupational  
Safety and Health

# National Certificate in Construction Safety and Health

This is to certify that:

**David Smith**

has satisfied the Examiners and  
was awarded this Certificate on:  
**10 February 2006**



*David Rowlin*

Chairman

*Steph U*

Chief Executive

Embossed with the Board's seal



Master Log Certificate Number:  
**F 5950**

18/02/2014//19/02/2014

**CERTIFICATE OF ATTENDANCE FOR**

David Smith

**Who attended the**

Authorising Engineer

**DURATION**

2 days

**COURSE VENUE**

PPL Training Ltd, York

**DATE OF COURSE**

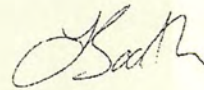
18th and 19th February 2014

**Course Director**



Gary Cooper

**Managing Director**



James W Booth

**Course Director**



Paul Wheldon



PPL TRAINING

0845 2600 966

[www.ppltraining.co.uk](http://www.ppltraining.co.uk)



# CERTIFICATE OF ACCREDITED TRAINING

David Smith

has successfully completed

Lift Management - Authorised Persons  
(HTM 08-02) LOLER & SAFed

and has been assessed in their ability to:

- Apply safe working practices and procedures in a lift environment to the current legislative standards and guidance.
- Discuss the safety, legal and regulatory documentation relevant to lift installations.
- Identify and control the safety hazards encountered in the lift installation according to current regulations.
- Define the roles and responsibilities and the healthcare requirements in accordance with HTM 08-02.
- Define the term competent person in accordance with LOLER.
- Carry out a lift inspection on a lift installation in accordance with LOLER.
- Safely release a trapped lift passenger in accordance with current best practice.
- Satisfactorily complete the project work to the required course standard.
- Satisfactorily complete the written assessment to the required course standard

Awarded: 9th - 11th January 2017

Enrolment No: TPM1247

Chief Executive Officer

  
John Thatcher



Eastwood Park...  
training



# *Certificate*

OF CONTINUING PROFESSIONAL DEVELOPMENT

This certificate records the attendance of

**David Keith Smith**

At a course on

**19 Jan 2015 to 21 Jan 2015**

Entitled

**A1222 Electrical Services Explained (3 days) - London**

Certificate Number: 0128244360

Attendance at this event can count  
towards your CIBSE CPD requirement

**The Chartered Institution of  
Building Services Engineers**  
222 Balham High Road  
London SW12 9BS  
Tel 020 8675 5211  
Fax 020 8675 6559  
[www.cibse.org](http://www.cibse.org)  
Email: [info@cibse.org](mailto:info@cibse.org)



**Safety Mundo**

This is to certify that

**DAVID SMITH**

of

**TECHNICAL SUPPORT ASSOCIATES LTD**

Has Completed The Following Training:

**MQAT070 - Confined Space Entry Procedures Covering  
Escape Breathing Apparatus**

on

**12/10/2015**

Certificate Number: 5446-2015-1

This Certificate is valid until

**11/10/2018**

Signed

Training Provider

**Safety Mundo**

Safety Mundo Limited, Irvin House, Icknield Way, Letchworth Garden City, Hertfordshire, SG6 1EF  
Telephone : 01462 676444 Fax : 01462 676333  
E-mail : [info@safetymundo.com](mailto:info@safetymundo.com) [www.safetymundo.com](http://www.safetymundo.com)

Registered Office :  
Irvin House, Icknield Way, Letchworth Garden city, Herts, SG6 1EF  
Registered in England Company Number 06735515



# Membership of Institution of Mechanical Engineers



IMECH E

Mr D K Smith CEng MIMechE  
77 Beech Grove  
Ashenden  
Guildford  
Surrey  
GU2 5UX

INSTITUTION OF  
MECHANICAL ENGINEERS

Northgate Ave  
Bury St Edmunds  
Suffolk IP32 6BN

Telephone 0284 763277  
Fax 0284 704006  
Telex 817376 IMEBSE

27 March 1991

Dear Mr Smith

I am pleased to be able to tell you that on 20 March 1991 the Council approved your admission to corporate membership of the Institution of Mechanical Engineers in the class of Member and it has asked me to extend to you a warm welcome into Corporate Membership.

If you are not already registered as a Chartered Engineer, you will be pleased to know that we will forward your name to the Engineering Council for such registration. You should note that the administration involved will take a little time and therefore your name will not immediately appear on the CEng register.

As a corporate member of the Institution of Mechanical Engineers you will be required to conform to the Institution's Rules of Conduct in accordance with its By-laws. It is also hoped that your newly gained corporate status will encourage you to take part in the many Institution activities which are held regularly in the United Kingdom and at many locations overseas. In this context, your support of local Institution Branch activities would be most welcome.

On election, we do ask members if they would be willing to make a donation to the Library for the benefit of all members. This can be either by a contribution towards the purchase of a publication, or sponsorship of an archive item. The Information and Library Service Manager at our London office, would be delighted to supply you with further details.

The Membership Manager will soon be writing to you with further information concerning the Institution. If you have any queries concerning your membership please do not hesitate to contact him direct at our Bury St Edmunds office.

Yours sincerely



Ronald W Mellor CBE FEng FIMechE  
Secretary

# Member of Chartered Institution of Building Services Engineers

26th June, 1986

DAVID KEITH SMITH, ESQ.,



**The Chartered Institution of  
Building Services Engineers**

Delta House  
222 Balham High Road  
London SW12 9BS  
Telephone 01 675 5211

I am very pleased to inform you that your name has today been entered  
in the Register of Members as a

**MEMBER**

of

The Chartered Institution of Building Services Engineers.

I extend to you my congratulations and those of my Council on your election.

Yours truly,

*Eoin Kenny*  
President.

# Certificate of Attendance

Authorising Engineer Course



Training for Success

This is to certify that

*D K SMITH*

attended the course

*AP.11 AUTHORISING ENGINEER  
AND PERMIT OFFICER*

at

*MELVIN HOUSE*

on

*19-22 MARCH 1996*



**ACCREDITED BY:  
INSTITUTE OF  
PLANT ENGINEERS**

Course Results - See Reverse

*Bob Hodge*

Managing Director

*Rosie Callaghan*

Course Director

# Authorising Engineer Refresher Course



This is to certify that

***D SMITH***

attended the

***BRITISH AIRWAYS  
AUTHORISING ENGINEER COURSE***

at

***BAWCC  
HEATHROW***

on

***23 - 25 JUNE 1999***

ACCREDITED BY:  
INSTITUTION OF  
PLANT ENGINEERS



This approval applies to certificate  
number 930570 only

*Donna Caff*

Course Director

*Bob Hodge*

Managing Director



This is to certify that

***D SMITH***

attended the course

*MS4*

*AUTHORISING ENGINEER*

at

*BURN HALL*

on

*30 APRIL – 1 MAY 2002*

*Steve Martin*  
COURSE DIRECTOR

*Bob Hodge*  
MANAGING DIRECTOR



This is to certify that

***D Smith***

attended the course

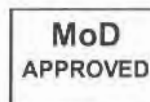
**MS2  
Authorising Engineer  
Workshop**

at

**Burn Hall**

on

**22 – 23 March 2005**



COURSE DIRECTOR



MANAGING DIRECTOR





This is to certify that

***David Smith***

attended the

**Authorising Authority and  
Authorising Engineer Refresher Course**

at

**TSA, Hayes**

on

**3 – 4 March 2008**

  
COURSE DIRECTOR

  
MANAGING DIRECTOR





This is to certify that

***D Smith***

attended the

**MS4**

**Authorising Authorities &  
Authorising Engineers course**

at

**Technical Support Associates, Hayes**

valid from

**1 March 2011**

  
COURSE DIRECTOR

  
EXECUTIVE CHAIRMAN





**Safety Mundo**

This is to certify that

**DAVID SMITH**

of

**TECHNICAL SUPPORT ASSOCIATES LTD**

Has Completed The Following Training:

**MQAT070 - Confined Space Entry Procedures Covering  
Escape Breathing Apparatus**

on

20/01/2012

Certificate Number: 2841-2012-1

This Certificate is valid until

19/01/2015

Signed

Training Provider

Safety Mundo Limited, Irvin House, Icknield Way, Letchworth Garden City, Hertfordshire, SG6 1EF

Telephone : 01462 676444 Fax : 01462 676333

E-mail : [info@safetymundo.com](mailto:info@safetymundo.com) [www.safetymundo.com](http://www.safetymundo.com)

Registered Office :

Irvin House, Icknield Way, Letchworth Garden city, Herts, SG6 1EF  
Registered in England Company Number 06735515

# **Todo Mundo Ltd**

This is to certify that

DAVID SMITH

of

*Technical Support Associates*

has completed the following Training  
**Two Day Confined Space Training Covering  
Escape Breathing Apparatus Sets,  
Self Contained Breathing Apparatus Sets  
And Rescue Procedures**

On

18th October 2000

Certificate Number:- 1329-2000-01

This certificate is valid until  
16th October 2003

Signed

*P. Thangson*

**Training Provider**

# City & Guilds *Certificate*

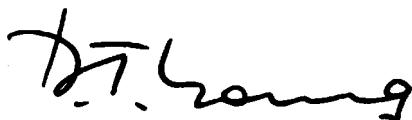
COMPUTER AIDED DRAUGHTING AND DESIGN  
TWO-DIMENSIONAL LEVEL 3

is awarded to            DAVID SMITH

WHO ATTENDED    GUILDFORD COLLEGE OF FURTHER AND HIGHER EDUCATION

Awarded    JULY 2002

0207/064450 /435101/RLK9071/1/02/01/57/



D.T. Young  
Chairman  
The City and Guilds of London Institute



C. Humphries  
Director-General  
The City and Guilds of London Institute

THREE-DIMENSIONAL COMPUTER AIDED DESIGN AND SOLID MODELLING  
LEVEL 3

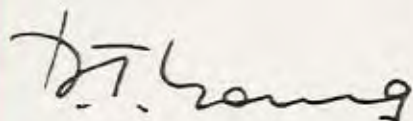
IS AWARDED TO  
**DAVID SMITH**

WHO ATTENDED GUILDFORD COLLEGE OF FURTHER AND HIGHER EDUCATION

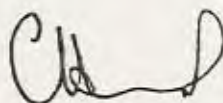
AWARDED

AUGUST 2004

0408/064450 /435109/RLK9071/1/02/01/57



D T Young  
Chairman  
The City and Guilds of London Institute



C Humphries  
Director-General  
The City and Guilds of London Institute





# THE MAINTENANCE OF STEAM SYSTEMS

*This Certificate  
is presented to*

***David Smith***

*who completed a course at the  
Spirax Sarco Training Centre, covering:*

Steam fundamentals  
Steam distribution system  
Pressure reducing valves and safety valves  
Steam trapping and air venting  
Steam trap checking  
Condensate recovery  
Principles of temperature control  
Practical fault finding

Training Centre Manager

*R. Glassonbury*

16 January 2003

**spirax  
/sarco**



# *Certificate*

## OF CONTINUING PROFESSIONAL DEVELOPMENT

This certificate records the attendance of **David Smith**  
at a one day seminar on

**5<sup>th</sup> December 2008**

**Entitled**

**Air conditioning inspection for complex buildings**

**Key Elements:**

- **Introduction**
  - Scope of the inspection required by the EPD Regulations
  - Factors affecting air conditioning system efficiency
  - Provision of advice
  - Preparation for the inspection
  - Energy consumption metering
  - Extent of the inspection
  - Guidance on good practice inspection and maintenance
  - Appropriate forms of inspection procedure
- **Inspection of packaged cooling systems**
  - Checklist of pre-inspection information
  - Inspection process for packaged systems
  - Reporting
  - Inspection checklist
- **Inspection of centralised systems**
  - Checklist of pre-inspection information
  - Inspection process for centralised systems
  - Reporting
  - Inspection checklists
- **Assessing equipment sizing in relation to the cooling load**
  - Estimating loads for packaged systems
  - Estimating loads for larger installations
  - Assessment of cooling capacity

**Signed:** .....  
**CIBSE**

The Chartered Institution of  
Building Services Engineers  
222 Balham High Road  
London SW12 9BS  
Tel 020 8675 5211  
Fax 020 8675 6559  
[www.cibse.org](http://www.cibse.org)  
Email: [info@cibse.org](mailto:info@cibse.org)

Attendance at this event can count  
towards your CIBSE CPD requirement



This Certificate is to certify that

**David Keith Smith**

has complied with the requirements of the following  
CIBSE Certification Limited Low Carbon Consultants Scheme:

Low Carbon Building Design to comply with the Building Regulations and the EPBD in  
the United Kingdom

and is authorised to use the CIBSE Certification Mark

---

**Date of Issue:** 19/11/2007

**Certificate No:** LCC12824

This certificate is valid only with a current  
LCC ID Card



4163

Signed on behalf of CIBSE Certification Ltd

**Authorised Signatory**



This Certificate is to certify that

**David Smith**

of

**Technical Support Associates Ltd  
Unit 1B  
70 Wood End Green Road  
Hayes  
Middlesex UB3 2SL**

has complied with the requirements of the following  
CIBSE Certification Limited Scheme

**Low Carbon Energy Assessor for the production of Display  
Energy Certificates to meet the requirements of the  
Energy Performance of Buildings Regulations  
in England, Wales and Northern Ireland**

and is authorised to use the CIBSE Certification Mark

**Date of issue:** 01-Sep-2009

**Date of expiry:** 31-Aug-2010

**Date of first issue:** 11-Feb-2009

**Certificate number:** LCEA012824

**Issue number:** 2



4163

**Signed on behalf of CIBSE Certification Ltd**

**Authorised Signatory**



This Certificate is to certify that

**David Smith**

of

**Technical Support Associates Ltd  
Unit 1B  
70 Wood End Green Road  
Hayes  
Middlesex UB3 2SL**

has complied with the requirements of the following  
CIBSE Certification Limited Low Carbon Consultants Scheme:

**Low Carbon Building Design to comply with the Building  
Regulations and the EPBD in the United Kingdom**

and is authorised to use the CIBSE Certification Mark

**Date of issue:** 01-Sep-2011

**Date of expiry:** 31-Aug-2012

**Date of first issue:** 19-Nov-2007

**Certificate number:** LCCD 12824

**Issue number:** 5



4163

**Signed on behalf of CIBSE Certification Ltd**

**Authorised Signatory**





# **Certificate of Approval**

## **Energy Assessors Accreditation Scheme**

### **Energy Performance Certificates**

### **for Non-Domestic Buildings**

**David Smith**

Has complied with the requirements identified in  
**Scheme Document SD162**

and is authorised to use the BRE Certification Mark in relation to this  
work using for the following company(s) and software calculation  
tool(s):

Company	Calculation tool
Technical Support Associates 70 Wood End Green Hayes Middlesex UB3 2SL	iSBEM Level 3 and 4

**Andy Butterfield**

for and on behalf of BRE Global

**Certificate No: BREC400417**

**Issue Number: 1**

**Valid From: 18 March 2011**

**breglobal**



BRE Certification is part of BRE Global Limited, Garston, Watford WD25 9XX. Tel 01923 664100 Fax 01923 664603 [www.breglobal.co.uk](http://www.breglobal.co.uk)

This certificate remains the property of BRE Global Limited and is issued subject to terms and conditions.  
To check the validity of this certificate, please visit [www.epcregister.com](http://www.epcregister.com) or [www.ndepcregister.com](http://www.ndepcregister.com)





**THIS IS TO CERTIFY THAT**

**DAVID SMITH**

**HAS SUCCESSFULLY COMPLETED  
THE FIRE SAFETY RISK ASSESSMENT COURSE  
ON 27<sup>TH</sup> AND 28<sup>TH</sup> JULY 2010**



A blue ink signature, appearing to be "R Docherty", written in a cursive style.

**R DOCHERTY  
MANAGING DIRECTOR**



## Disclosure

SCOTLAND

## BASIC DISCLOSURE

Disclosure Number: 110100105638213

Date of Issue: 28/01/2012

page 01 of 01

Mr DAVID SMITH  
1 Burnet Avenue  
Burham  
GUILDFORD  
Surrey  
GU1 1YD

551891

## Applicant Personal Details

Surname: SMITH

Forename(s): DAVID

Date of Birth: 02/01/1957

## Convictions

Date Court Offence Disposal

NONE

## Cautions

Date Court Offence Disposal

NONE

## Other Relevant Information

NONE

## Other Government Information

Not applicable to this level of disclosure.

END OF DISCLOSURE

## **DISCLOSURE EXPLANATORY NOTES**

### **Convictions**

Details of convictions held on central records i.e. dates and courts of convictions; descriptions of offences; disposal details. This may include multiple convictions with multiple disposals.

Full details of criminal convictions obtained outwith the UK may not be included e.g. foreign convictions. Details of convictions obtained in Northern Ireland will only be included where a relevant connection with Northern Ireland has been established.

### **Cautions**

Cautions recorded on the Police National Computer database for crimes & offences committed in England & Wales i.e. dates & locations where the caution was given and description of offences.

### **Other Relevant Information – (Enhanced Disclosures only)**

Details information supplied by police force(s)

### **Other Government Information**

Information on individuals who are disqualified from working with children and protected adults is disclosed under this section or it will state that the lists have been checked with no information to disclose or that the list check is not required for the post or level of disclosure required.

### **Use of Disclosure Information**

This Disclosure should be used in accordance with the Code of Practice and any guidance issued by Disclosure Scotland. Particular attention should be paid to the guidance on the fair use of information.

This Disclosure is issued in accordance with Part V of the Police Act 1997 which creates a number of criminal offences in order to protect the public against misuse of these Disclosures. These offences include forgery or alteration of Disclosures, obtaining Disclosures under false pretences and using a Disclosure issued to another person as if it were one's own.

This Disclosure is confidential and is not evidence of the identity of the bearer. The personal details are those supplied by the applicant at the time of the application. Conviction details and any other information disclosed have been provided on this basis. Conviction details etc are only accurate on date of issue of the Disclosure.

Any information provided in *Other Relevant Information* section of this Disclosure is included at the direction of Chief Constable(s) in Scotland, and Chief Officer(s) in England and Wales By virtue of the amendment of the 1997 Act by The Serious and Organised Crime and Police Act 2005 other agencies are deemed to be police forces for the purpose of an Enhanced Disclosure. As such they can provide information for inclusion in this section of the Disclosure. The Chief Constable or Chief Officer of the force concerned may decide to provide separate information to the Registered Body only.

The information contained in this Disclosure is derived from central records as defined in Part V of the Police Act 1997 and regulations made there together with local police records, where appropriate. Disclosure Scotland is not responsible for any inaccuracies in this information.

If this Disclosure is found and cannot be returned to the person to whom it relates, it should be returned immediately to Disclosure Scotland or handed in to the nearest police station.

### **End of Details**

If you believe there are any inaccuracies contained in the data supplied in this Disclosure, you should write directly to:-

**Disclosure Scotland  
PO Box No: 250  
GLASGOW  
G51 1YU**

**Helpline Number 0870 6096006**