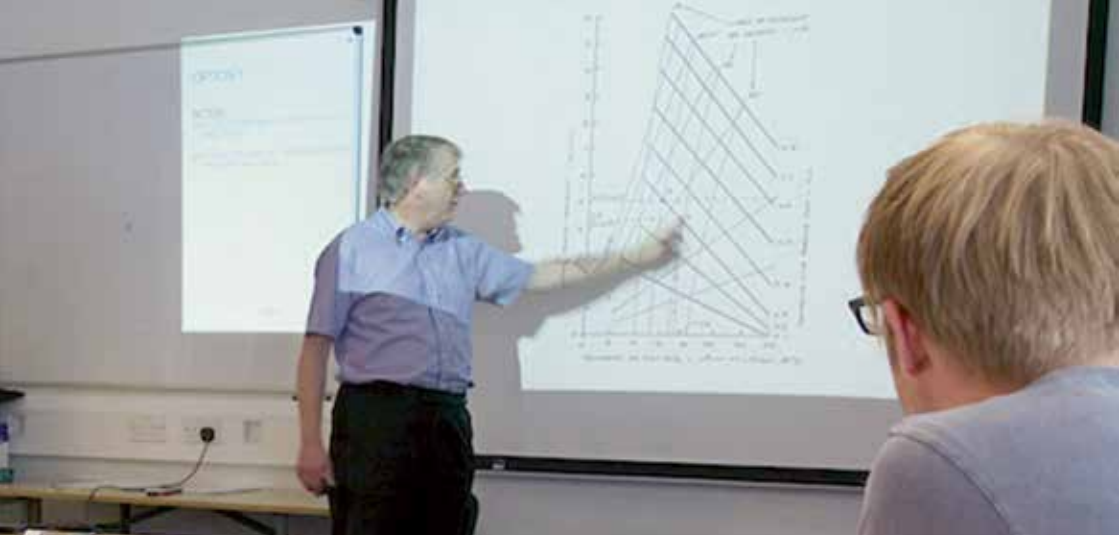




The Wolfson Centre for Bulk Solids Handling Technology

Short Courses for Industry
Course Calendar for 2015





Welcome to the Wolfson Centre for Bulk Solids Handling Technology

Our mission: cost-effective solutions to industrial problems

The Wolfson Centre is a leader in the field of powder and bulk solids handling technology and has established strong links with industry. This enables us to

offer consultancy, research projects and short courses that combine technological excellence with personalised teaching.

Objectives and content

Our range of short courses is designed to equip delegates with the means to identify and overcome difficulties that arise, saving time and increasing productivity.

Our experts' in-depth knowledge, as specialists in powders and bulk solids, is complemented by their experience across all industries, including, but not limited to, renewable energy, pharmaceuticals, process and chemical engineering, recycling, food and drink processing and mining.

In order to meet the changing needs of industry, we continually update our range of courses to reflect current trends. We have

recently introduced courses on biomass handling and dust explosions, and our 2015 calendar reinstates the Powder and Dust Containment in the Process Industry course, in response to demand.

We will continue to update the calendar in response to requirements. Please visit **www.bulksolids.com** for the latest information on all our courses.

For more information, or to make a booking, please contact us:

Telephone: 020 8331 8646

E-mail: wolfson-enquiries@gre.ac.uk

Website: www.bulksolids.com

Overview of courses

Powder and Dust Containment in the Process Industry

For process engineers who handle hazardous or toxic materials.

Undesired Deblending and Separation in Processes and Equipment

Learn the techniques that can be applied to minimise the effects of bulk materials segregation.

Measurement of the Properties and Bulk Behaviour of Particulate Materials

An overview of various methods of measuring the behavioural properties of powders, including hands-on sessions in our laboratories.

“[Pneumatic Conveying] was a very good, well-run course and gave a good all-round knowledge of not only pneumatic conveyors but how they interface with their surrounding plant.”

Tom Pell

Omega Foundry Machinery

Pneumatic Conveying of Bulk Solids, plus optional practical session

This course covers the components of pneumatic conveying systems, system selection and design techniques.

Advanced course: Pneumatic Conveying System Design

NEW

An in-depth exploration of detailed calculations and design for pneumatic pipelines.

This course is aimed at design practitioners already familiar with the basics of pneumatic conveying.

Overview of Particulate Handling Technology, plus optional practical session

An introduction to the technology of storing and handling bulk materials, equipment selection and design methodologies for safe and reliable plant.



Storage and Discharge of Powders and Bulk Solids, plus optional practical session

This course covers the basics of hopper and silo operation, design and specification, including storage and flow of materials and the selection of feeders and discharge aids.

Advanced course: Design of Equipment for Storing and Discharging Bulk Materials

NEW

Developed to assist designers or consultants involved in the design and manufacture of silos and hoppers.

This course is aimed at practitioners already familiar with the basics of storage and discharge of bulk material.

Dust Explosions: How to Demonstrate DSEAR/ATEX Compliance

Learn the simple measures that can be taken to reduce the hazard of a dust explosion.

Biomass Handling, Feeding and Storage

Discover how to identify, prevent and resolve common problems when handling various biomass materials.

Caking and Lump Formation of Powders and Bulk Solids

NEW

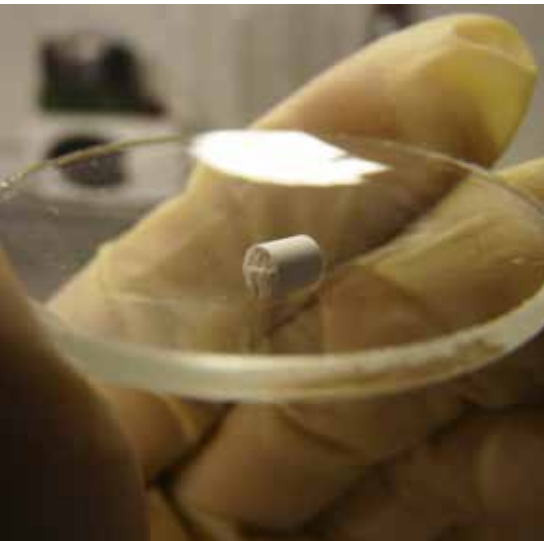
This course covers the causes of lump formation and hardening of powders and bulk solids in storage and transport, and the techniques used to predict and solve these problems.

“I found the (Dust Explosions) course very informative.”

Bob Knott
Kerry Foods

Practical sessions

Practical sessions give delegates the opportunity to learn new techniques using the equipment in our laboratories, some of which may not be available to them in the workplace.



Course dates and costs

24–26 February	Pneumatic Conveying of Bulk Solids; includes optional practical session	
10–12 March	Storage and Discharge of Powders and Bulk Solids; includes optional practical session	
25 March	Caking and Lump Formation of Powders and Bulk Solids	NEW
21 April	Dust Explosions: How to Demonstrate DSEAR/ATEX Compliance	
28 April	Powder and Dust Containment in the Process Industry	
12–13 May	Design of Equipment for Storing and Discharging Bulk Materials (Advanced course, following on from Storage and Discharge of Powders and Bulk Solids)	NEW
2 June	Undesired Deblending and Separation in Processes and Equipment	
9–10 June	Advanced course: Pneumatic Conveying System Design	NEW
7–8 July	Measurement of the Properties and Bulk Behaviour of Particulate Materials	
29–30 September	Biomass Handling, Feeding and Storage	
13–15 October	Overview of Particulate Handling Technology; includes optional practical session	
17–19 November	Pneumatic Conveying of Bulk Solids; includes optional practical session	

Costs per delegate

- One-day course: **£445**
- Two-day course: **£695**
- Three-day course: **£1,075**

Please visit www.bulksolids.com for information on discounts and cancellation costs, terms and conditions.

Who should attend?

- Engineers
- Plant managers
- Skilled operatives
- Maintenance crew
- Equipment manufacturers

When you attend one of our courses, you are encouraged to discuss the bulk solids handling problems you have encountered at your workplace with our experts.

Bespoke training

We can deliver any of the courses listed here at your premises. If required, they can be modified to highlight areas of specific concern.

This is a popular option for organisations with a number of personnel who would benefit from education in the same subject area. There are three main advantages to running our courses at your premises:

- **Cost** – it is more economical for us to bring the course to you than for you to send several members of staff to us
- **Relevance** – we can tailor the course to suit the operations you have in your plant
- **Convenience** – we can run the course at a time that suits you; over separate days rather than consecutively if you prefer.



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in other formats on request**

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