



PORT AND TERMINAL OPERATIONS FOR BULK CARGOES ONLINE DELIVERY

28-31 MARCH 2023

Port and Terminal Operations for Bulk Cargoes is offered by ABTO in partnership with The Wolfson Centre for Bulk Solids Handling Technology at The University of Greenwich. This course has been designed for anyone who needs to understand about the issues surrounding the safe handling and storage of bulk materials in port terminals and at sea.

Port and Terminal Operations for Bulk Cargoes will cover:

- Ship unloading technologies (Grabs vs CSUs, different CSU technologies)
- Conveying technologies (pneumatic vs belt)
- Storage and discharge technologies (silos, flat stores, stacking etc)
- Loading/unloading control (weighing, controlling ship bending etc)
- Rail and road out-loading equipment and control
- Explosion and fire risks and management (ATEX, fire control and management)
- Mobile plant and safety
- Developments in automation and autonomous vehicles
- Dust control and environmental protection
- Controlling cargo damage (particle degradation, spoilage, water damage etc)
- Wear protection and maintenance
- Cargo characterisation for handleability and other issues

Course Format

Delivered online over five days in March 2023, Port and Terminal Operations for Bulk Cargoes includes a mixture of practical and theoretical elements.

Case studies are used to illustrate the presentations where applicable. The course is **interactive** so delegates can discuss real life issues and determine best practice, including substantial discussion periods to permit the analysis of specific problems experienced by the attendees.

Who should attend?

Anyone concerned about, who handles, or is responsible for the safe transportation and storage of bulk materials in port terminals and at sea, particularly:

- Stevedores
- Operations supervisors
- Port and business development managers
- Port developers
- Cargo superintendents
- Equipment suppliers
- Design consultants
- Ships Masters
- Safety managers and consultants

Port and Terminal Operations for Bulk Cargoes *continued*:

Benefits of attending

Delegates will gain an understanding of the reasons for the varied behaviour of, and how to handle, bulk particulate materials as they travel across the seas or are stored and transported to and from port terminals.

In-company option

This course can be delivered in-company, offering a number of benefits including cost, tailored relevance to your company and convenience.

Course fee and registration

The course fee is £950.00. To register an interest in attending Port and Terminal Operations for Bulk Cargoes online or the in-company option, please contact Simon Gutteridge at events@bulkterminals.org or telephone +33 (0)3 21 47 72 19 *

Course leader



The course leader is Mike Bradley, Professor of Bulk and Particulate Technologies and Director of The Wolfson Centre at The University of Greenwich. Mike is also Chairman of the Solids Handling & Processing Association (SHAPA) and also sits on the ABTO Members' Advisory Panel. He has worked internationally on design and troubleshooting of bulk solids handling as a commercial consultant and research expert for over twenty years.



* ABTO, SHAPA, MHEA, ICHCA and IMechE members are entitled to a 10% discount