

AN INTRODUCTION TO LNG BUNKERING		
08:30	Course Registration and Welcome Coffee Break	
09:00	Introduction/Administration Course Director: Nigel Draffin, Consultant, Lecturer and Author. IBIA Board Member.	
09:15	Why use gas as a fuel?	
09:35	What is methane?	<ul style="list-style-type: none"> • How is it sorted • LNG to Methane
10:05	How is it burned?	<ul style="list-style-type: none"> • Fuel systems • Gas engines • Low pressure injection DF • High pressure injection DF
10:50	<i>Networking Coffee Break</i>	
11:05	Gas Laws	<ul style="list-style-type: none"> • Pressure vs Temperature • Latent Heat • Cold vs Hot LNG
11:30	Boil off Gas	<ul style="list-style-type: none"> • Managing Storage Pressures • Dealing with Boil Off
11:55	Regulations	<ul style="list-style-type: none"> • SOLAS, IGC and IGF Codes • Ex Equipment
12:20	Safe Zones	<ul style="list-style-type: none"> • Safe Zones for Operation • Safe Zones on Board
12:45	Safety Risks	<ul style="list-style-type: none"> • Temperature, Fire and Explosion • Roll Over and RPT • Nitrogen
13:10	<i>Networking Lunch</i>	
13:50	Procedures, Process Flow, Isolation and Bonding	<ul style="list-style-type: none"> • Including video
14:45	Fire Fighting	<ul style="list-style-type: none"> • Inerting • Vapour Risks • Fire Fighting Systems
15:10	Measurement	<ul style="list-style-type: none"> • Volume • Mass • Analysis
15:30	ESD System	<ul style="list-style-type: none"> • ESD • ERS • Testing
16:00	<i>Networking Coffee Break</i>	
15:10	Personnel Safety	<ul style="list-style-type: none"> • Gas Monitoring • Tank Entry • PPE
16:45	IGF Code	
17:00	Tank Protection	<ul style="list-style-type: none"> • Over Pressure • Over Filling
17:15	Technical Developments	<ul style="list-style-type: none"> • Gas Injection Control • Engine Safety • Maintaining Propulsion
17:35	Certificates and Close	