Lotus Gas Oil Consultants



Onshore and Offshore Engineering

TITLE:	Process Safety Engineering- Relief & Blowdown Study					
LEVEL:	Advand	ced	DURATION:	3 days		
DESIGNED FOR:	Process engineers & senior operating personnel responsible for designing, operating and maintaining relief and flare systems in oil and gas facilities.					
ABOUT THE COURSE:	This is an intensive 3-day course providing a comprehensive overview of relief and blowdown systems for oil and gas processing facilities.					
	The course begins with the need for pressure control/overpressure protection, continues with the key engineering and design aspects including code considerations, relief and blowdown study, sizing relief devices and concludes with selecting and defining the components of a flare system.					
	The material of the course is applicable to onshore field production facilities, pipelines, gas plants, terminals, and offshore production facilities.					
YOU WILL LEARN:	>	Purposes of relicoperations.	ef and flare systems and the	heir importance in safe		
	>	Relief study code requirements. Causes of overpressure and the ways to control/ mitigate (relief study).				
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	>	Layers of protection.				
	>	Types overpress	pes overpressure protection device.			
	>	Safety instrument system.				
	>	_	ef cases considering opera emergency situations (such	•		
	>	Commonly used and size these of	l pressure relieving device levices.	s and how to select		
	>	Determining set and Code require	relieving pressures to medements.	et operational, safety		
	>	Defining the dep	oressuring calculation requ s.	irements, sizing basis		
	>	Operational con and disposal of	siderations of maintenance	e, testing, certification,		
	>	Introduction to F	lare system design and ne	etwork simulation.		

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COURSE CONTENT:	>	Purposes and overview of typical relief and flare systems and key components.				
	>	Safety implications and the causes of overpressure.				
	>	Codes and standards as well as good practices typical in oil and gas facilities. Overpressure protection philosophy including source isolation and relief. Determination of relief requirements and defining set point pressures. Types and applications of common relief devices. Relief valve sizing for single, two phase and supercritical condition.				
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	>	Multiple relief valve installation requirements.				
	>	Blow-down/depressurizing - purpose & design/ operational considerations. Preparing input data for HYSYS depressuring tool.				
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	>		cification considerations for haracteristics, services cor			
	>	Introduction to f	lare network simulation.			