

## SHORT COURSE CERTIFICATE Reference 2108

Name of the course	Emissions and System	em Analysis (Ô nhiễm và phân tích n)
Contact person	first name	Hung Anh
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Workload for participants	8 days	
Learning Outcomes (LO)	After attending this course, participants	
	- have a basic understanding where plastic waste is generated and which factors have influence on plastic waste generation	
	- are able to explain costs and benefits of plastic waste recycling	
	- understand the development of business plans in the recycling industry	
	- recognize policy approaches which are used for plastic waste management;	
	- understand how Life Cycle Assessment can be used for the planning and monitoring	
	of plastic waste management	
	- are able to characterize common approaches for citizen engagement in waste	
	management	
Target groups	Manager or technical director of plastic companies	
Prerequisites	basic knowledge about plastic production	
Description of the course	This course provides puts plastic waste in the wider context of regulations, economic	
	aspects, system analysis and consumer behaviour. Plastic waste is part of household	
	waste, industrial waste and agricultural waste, the generation of plastic waste is	
	explained. In terms of economic aspects, the economic benefits of plastic waste	
	recycling are explained. Further related cost and fees systems as well as business plan	
	development are explained. A case study for a business plan of a recycling facility in	
	Laos provide further details. For plastic waste policies, global trends and regulations in	
	Vietnam and Laos are given. Policy instruments such as command and control	
	approaches and market-based instruments are explained. For the system analysis of	
	plastic waste implication, Life Cycle Assessment is introduced. The concept of citizens	
Overview of the syllabus	engagement is show	
Overview of the synabus	<ul> <li>Plastic waste generation (ppt slides)</li> </ul>	
	- Economic aspects (ppt slides)	
		ation (ppt slides)
	<ul> <li>LCA based envir</li> </ul>	onmental system analysis (ppt slides)
		ment though citizens engagement (ppt slides)
Teaching and learning		ractice methods were used.
methods	PBL method for participants.	
Assessment of LO	Answer multiple choice questions	
	Group report on the	
Trainer	Dr. Nguyen Thi	
	MSc. Do Doan I	-
	Dr. Nguyen Thi	
	MSc. Nguyen Tr	rung Hoang

Reviewer 1	Prof. DrIng. Kerstin Kuchta, Technical University Hamburg		
Reviewer 2	Dr. Sujitra Vassanadumrongdee, Chulalongkorn University, Bangkok		
Date of Certification	2021-04-14		
Expiration of Certification	2024-04-13		

Vienna, 2021-04-14

fulwal fullion Dr. Gerhard Schleining

