

EHS+ Network Curriculum and Course List 2016

There are 4 EHS+ Network curriculum tracks available: EHS (which can be separated into environment and health& safety), energy, and GHG.

Courses in each track are classified into 3 levels:

- Foundation level: These courses introduce the cross-cutting themes and provide core concepts and knowledge for EHS management.
- Skill-building level: These courses build on the foundation courses and develop specific "hard" skills needed for effective EHS management, especially management system development.
- Capstone level: These courses build on the foundation and skill-building courses to develop "soft" skills needed to demonstrate proficiency in higher level management tasks requiring flexibility, especially leadership, culture, and risk management.

The EHS+ Network recommends course packaging across all three levels. The topics and course duration can be tailored to brand needs. Course availability is indicated by country: China = CN, Bangladesh = BD, India = IN

EHS+ Network Curriculum	Track	Course Level
	Environment, Health & Safety Curriculum	Foundation courses
		Skill building courses
		Capstone courses
	Energy Curriculum	Foundation courses
		Skill building courses
		Capstone courses
	GHG Curriculum	Foundation courses
		Skill building courses
Capstone courses		

LEVEL	CATEGORY	COURSE ID	COURSE NAME	CN	BD	IN
Environment, Health & Safety Curriculum						
Foundation	EHS Awareness	EHS-F-001	EHS value and overview	√	√	√
	EHS Risk Identification & Assessment	EHS-F-002	Environmental aspects identification, evaluation & control	√	√	√
		EHS-F-003	Hazards identification & risk assessment	√	√	√
		EHS-F-004	Job safety analysis	√	√	√
	EHS Legal Compliance	EHS-F-005	Management of environmental regulatory compliance	√	√	√
		EHS-F-006	Management of OHS regulatory compliance	√	√	√
	EHS Management Systems	EHS-F-007	Implementation of ISO14001	√		
		EHS-F-008	Implementation of OHSAS18001	√		
Skill-Building	Pollution Prevention and Control	EHS-S-001	Environmental management practice	√	√	
		EHS-S-002	Water Management	√	√	
		EHS-S-003	Management of waste air emissions	√	√	
			Management of Industrial emissions		√	
		EHS-S-004	Solid waste management	√	√	√
			Waste Water Management		√	
		EHS-S-005	Cleaner production	√	√	
	Building Safety		Building Structural and Operational Safety		√	
	Critical Operation Safety	EHS-S-006	Hot work safety	√		
		EHS-S-007	Confined space entry safety	√		
		EHS-S-008	Working at height safety	√		
EHS-S-009		Crane safety	√			

LEVEL	CATEGORY	COURSE ID	COURSE NAME	CN	BD	IN	
		EHS-S-010	Forklift safety	√			
		EHS-S-011	Lock Out Tag Out	√			
	Electrical Safety	EHS-S-012	Management of electrical safety	√	√		
		EHS-S-013	Static electric safety	√			
		EHS-S-014	Electric arc safety	√			
	Mechanical Safety	EHS-S-015	Management of machinery safety	√	√		
		EHS-S-016	Machine guarding	√			
		EHS-S-017	Robot safety	√			
	Chemical Safety	EHS-S-018	Management of hazardous chemical safety	√	√	√	
			Zero Discharge Hazardous Chemical (ZDHC)		√		
		EHS-S-019	Environmental management of hazardous chemicals		√		
	Fire Safety	EHS-S-020	Management of fire safety	√			
		EHS-S-021	Management of fire facilities	√		√	
		EHS-S-022	Fire and explosion prevention	√	√		
	Traffic Safety	EHS-S-023	Defensive driving	√			
	Lab Safety	EHS-S-024	Laboratory safety - general requirements	√			
	Process Safety	EHS-S-025	Process safety management	√			
		EHS-S-026	HAZOP	√			
	Occupational Health	EHS-S-027	Occupational health management	√	√		
			Occupational Health & Hygiene		√		
		EHS-S-028	Ergonomics	√	√		
		EHS-S-029	Radiation protection	√			
		EHS-S-030	Containment technology and good practice	√			
		EHS-S-031	Industrial hygiene	√	√		
	Personal Protection	EHS-S-032	Management of personal protection equipment	√	√		
		EHS-S-033	Respiratory protection equipment	√			
	EHS Incident Management	EHS-S-034	EHS emergency management - general requirements	√	√		
		EHS-S-035	Emergency management for fires	√			
		EHS-S-036	Emergency management for chemical leakages	√			
		EHS-S-037	Planning and implementation of emergency drills	√			
		EHS-S-038	Incident investigation & root cause analysis	√	√		
	EHS Mgmt of Parties	EHS-S-039	Contractor EHS management	√			
		EHS-S-040	Construction project EHS management	√			
	Mgmt of Change	EHS-S-041	Management of EHS change	√			
	EHS Conformity Auditing	EHS-S-042	EHS inspection & audit	√	√		
		EHS-S-043	ISO14001 internal auditor	√	√		
		EHS-S-044	OHSAS18001 internal auditor	√	√		
	Capstone 高阶课程	EHS Culture	EHS-C-001	Behavior based safety	√		
			EHS-C-002	EHS communications	√		
			EHS-C-003	EHS leadership	√	√	
			EHS-C-004	Shaping and promotion of EHS culture	√		
		Risk Management	EHS-C-005	Hazard-based safety engineering	√	√	
		Crisis Management	EHS-C-006	EHS crisis management	√		

LEVEL	CATEGORY	COURSE ID	COURSE NAME	CN	BD	IN
	Implementation		EHS Capstone Project	√	√	
Energy Curriculum						
Foundation	Energy Conservation Awareness	ENG-F-001	Energy management value and overview	√	√	√
		ENG-F-002	Energy efficiency and carbon reduction	√		√
		ENG-F-003	Energy saving and efficiency		√	
	Energy Conservation Legal Compliance	ENG-F-003	Management of energy conservation legal compliance	√		
	EnMS Management Systems	ENG-F-004	Establishment and Implementation of an energy management system	√		√
Skill-Building	Cross-equipment Energy Conservation	ENG-S-000	Introduction to lubrication management			√
	Project-based Energy Conservation	ENG-S-001	Management of energy conservation project	√		
	Energy Conservation of Generic Energy Consuming Equipment and Systems	ENG-S-002	Energy conservation for electrical power system	√		
		ENG-S-003	Energy conservation for motors	√	√	
		ENG-S-004	Energy conservation for fans and fan system	√	√	
		ENG-S-005	Energy conservation for pumps and pump system	√		
		ENG-S-006	Energy conservation for compressed air system	√	√	
		ENG-S-007	Energy conservation for HVAC	√		
		ENG-S-008	Energy conservation for lighting system	√	√	
		ENG-S-009	Energy conservation for electric heating equipment	√		
		ENG-S-010	Energy conservation for boilers and heat distribution systems	√		
		ENG-S-011	Energy conservation for building envelope	√	√	
	Energy Analysis and Review	ENG-S-012	Techniques for energy data analysis	√		
		ENG-S-013	Techniques for energy review	√		
	Energy Conformity Auditing	ENG-S-014	ISO50001 internal auditor	√		
Capstone	Advanced Energy Management	ENG-C-000	Best management practice for improving energy efficiency	√		
		ENG-C-001	Energy Leadership		√	
		ENG-C-002	Best management practice for improving energy performance	√		
		ENG-C-003	Advanced energy manager	√		
GHG Curriculum						
Foundation	GHG Awareness	GHG-F-001	Low carbon value and overview	√		
Skill Building	GHG Accounting, Reporting and Verification	GHG-S-001	Corporate GHG accounting and reporting	√		
		GHG-S-002	Corporate GHG internal verifier	√		
Capstone	Advanced GHG Verification	GHG-C-001	Corporate GHG lead verifier	√		

