


Name:			
Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, May 2022			
Course: Legal Aspects of Safety, Health & Environment Program: B Tech FSE Course Code: CLCC 3032 Instructions:		Semester: VI Time : 03 hrs. Max. Marks: 100	
SECTION A (5Qx4M=20Marks)			
S. No.		Marks	CO
Q 1	a) Differentiate “Gas cylinder” and “Pressure Vessel” b) How Petroleum products are classified	2X2	CO2
Q 2	Discuss hazardous waste storage requirements as per Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016	4	CO2
Q 3	What do you understand by extended producer’s responsibility?	4	CO2
Q 4	Explain the periodic testing requirements of pressure vessels in service as per Static and Mobile Pressure Vessels (Unfired) Rules, 2016	4	CO2
Q 5	Enlist the duties of the occupier as per biomedical waste management rules 2016	4	CO2
SECTION B (4Qx10M= 40 Marks)			
Q 6	Describe the manifest system for hazardous and other waste to be used within the country as per Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016	10	CO2
Q 7	Jeevan, the child labour employed in a factory, was certified by the doctor in the government hospital to be inflicted with amputation through the shoulder joint for his left hand and lost his thumb of the right hand. His salary was Rs. 475/- per day. The Minimum wage notified for that employment is Rs. 525/- per day. The accident happened in June 2015 and the company paid the compensation after 5 years. Determine the compensation payable.	10	CO3
Q 8	Prepare a standard operating procedure based on storage requirements of gas cylinders as per gas cylinder rules 2016	10	CO3
Q 9	Prepare an inspection checklist based on the electrical related safety requirements to be followed in petroleum refining or loading/ unloading areas as per Petroleum Rules 2002	10	CO3
SECTION-C			

(2Qx20M=40 Marks)

Q 10

10+10

CO4

- a. Minutes of the safety committee held for an organization is shown below. Identify and discuss legal compliances and non-compliances (5 each) of the below document concerning factory act/rules requirements

	KOCHI METRO RAIL PROJECT	Revision No:01/ 12-12-2016
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MINUTES OF SHE COMMITTEE MEETING

Contract No.	KT-4 & KT-5R1		
Contractor Name	IRCON INTERNATIONAL LIMITED		
Contract Title	Design, Supply, Installation, Testing And Commissioning Of Ballastless Track Of Standard Gauge In Elevated Sections Of Aluva To Petta Corridor and Ballasted Track in Muttom depot of Kochi Metro Rail Project		
Meeting No	12	Date of Meeting	06.12.2016
Location of Meeting	IRCON OFFICE, Marankar Road Edapally Toll		
Date for formation of safety committee	03.04.2014		

MEMBERS PRESENT	INVITEES	MEMBERS ABSENT
<ol style="list-style-type: none">1. Mr. Jayasankar V K AGM IRCON2. Mr. Arun Veranakar JGM IRCON3. Mr. Rejoy Varghese, Chief Safety Manager, IRCON4. Mr. B K Raj, Labour Welfare Officer, IRCON5. Rajesh Kumar, Welder IRCON6. Mr. Abhimanyu Kumar Singh Safety Officer PPM PPL7. Anoop George, Supervisor,IRCON	<ol style="list-style-type: none">1. Mr. M Parthiban AM Safety, DMRC	Nil ,

REPORT SENT TO	
No. of Copies	Name. /Dept
2	DMRC, Chief Engineer & Safety
Email	PEE PEE Mandal
Email	IRCON Departmental In -charges
Email	Rocky crane services
Email	M/s Santosh Babu
Prepared by: Mr. Reioy Varghese Location : Edapally Date: 09.12.2016	

Sr. No	Topics	Discussion	Responsibility	Target Date
1	Complaints received from Clients and corrective and preventive action	IRCON CHSEM informed that one complaint was received from DMRC regarding delay in certification audit. And told that Stage-2 audit is planned in last week of January -17	IRCON	Last week January-17
2	Review of MOM of previous meeting			
2.1	Certification audit	IRCON CSHEM informed IRCON is in the process of closing the observations & NCs raised during stage-1 audit. And stage-2 audit is planned in January 2017.	IRCON	Last week January-17
2.2	96 hour Training	IRCON CSHEM briefed the status of 96 hour training for staff and workers, and informed that out of 31 IRCON staff had completed 96 hours of training. The training for remaining PPM staffs and workers is planned in January	IRCON SHE	On going
2.3	Accumulated wooden scraps at Mutton yard	IRCON CSHEM told that almost 95% of wooden scraps have been removed from yards and IRCON PH informed that as turnout works are being going on, the remaining scraps will be cleared by Mid of next month and instructed PPM that the scraps shall not be burned it shall be disposed properly.	IRCON	Mid of Feb
2.4	Medical tie up of Pee Pee Mandal	Complied		
2.5	Concrete waste in Mutton yard	Complied		
2.6	Electrical cable connections	Complied		
3	First - Aid cases / Reportable accident cases	IRCON CSHEM discussed the details of near miss accident happened at Maharajas Station and corrective and preventive actions taken		
New matters raised				
4	Pending Approvals and external SHE audit observations	IRCON CSHEM informed that following observations were raised during last external SHE audits 1. Approval of method statements, Labour welfare officer, SHE organogram, revised SHE policy 2. Conducting MARS audit without DMRC representation. 3. CE marking of ASLI 4. Refresher training for 96 hour training completed persons 5. Compliance of 96 hour training for labours in-proportion to no. of months worked In reply DMRC representative informed that he will take actions to resolve these issues after discussing with concerned authorities.	DMRC	

Details regarding next meeting: April 2017

b. Identify and state legal non-compliances observed with the below image



Q 11

Evaluate legal compliances in the following scenarios

10*4

CO5

	<ul style="list-style-type: none">a) ABC company ordinarily employs 450 workers in their factory. The labour welfare activities are taken care of by the safety officer.b) During walkthrough inspection on UPES campus LPG cylinders approximately 200 kg, connected to manifold was found using without any licensec) During an internal audit, it was observed that an operator was operating the grinding machine; GM-07 rated 1000W and 1000 rpm. At the time of operation, the grinding wheel attached had a diameter of 20 cm and was rated 1200 rpm.d) The employer of the ABC steel factory asks an employee to work for 70 hours per week; including overtimee) A factory engaging 220 male and 125 female workers have 6 latrines respectively		
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