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NPTEI

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Courses » Fire Protection, Services and Maintenance Management of Building

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Unit 10 - Week 9

Course **Assignment 9** outline The due date for submitting this assignment has passed. Due on 2018-10-03, 23:59 IST. How to access As per our records you have not submitted this the portal assignment. The first 2 questions require application of the equations and concepts mentioned in the class Week 1 videos. Week 2 1) In a large estate electric cables are relatively old and failures are often reported. Detection4 points of faults and repair takes on an average 6 hours resulting in estimated hourly disruption cost of Rs. Week 3 5000/- . However, data from a similar estate nearly as old showed that when one inspects regularly the number of failures/year reduces exponentially with number of inspection. For no inspection average Week 4 number of failure is 10/year. For average 2.3 inspection/year number of failure is 1. The cost of each emergency repair is estimated to be Rs.20000/-. Cost of one cycle of complete inspection requires Week 5 14400/- in addition to a disruption cost of Rs. 4000/. Optimally, how many number of inspections shall Week 6 be done in a year? (From the answers choose the range) Hint: Calculate the corresponding costs and judge basis which is more economical overall. Week 7 Week 8 1-2 Week 9 Planning for building No, the answer is incorrect. maintenance Score: 0 Periodicity of **Accepted Answers:** maintenance management Estimation of 2) In a hotel, the maintenance records over a number of years exhibit the following average 4 points repair cycle replacement pattern for hot water taps. What is the average service life? Hint: Plot the mortality curve for the values to calculate service life based on number retired. Cost profile of maintenance Choose the range from the answers 9-10 10-11 11-12 | 12-13 Age interval 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 6-7 7-8 8-9 Lamp % retired during interval 4 5 12 20 18 13 10 8 65 2 0 replacement

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OQuiz :		Score: 0	
Assignment 9	ce De	Accepted Allawers.	
Assignment 9 solution		6-7 yrs	
		3) Which of the following is not a maintenance generator?	3 points
Week 10		Location of the building	
Week 11		Climatic conditions	
Week 12		Changing standards	
		None of the above	
		No, the answer is incorrect.	
		Score: 0	
		Accepted Answers:	
		None of the above	
		4) Repair is performed for?	3 points
		Complete structure	
		To restore functional performance to acceptable levels	
		Upgrade to currently acceptable standards	
		None of the above	
		No, the answer is incorrect.	
		Score: 0	
		Accepted Answers:	
		To restore functional performance to acceptable levels	0 54
		5) Rehabilitation is performed for?	3 points
		Complete structure	
		To restore functional performance to acceptable levels	
		Upgrade to currently acceptable standards	
		None of the above	
		No, the answer is incorrect.	
		Score: 0	
		Accepted Answers: Complete structure	
		6) Retrofit is performed for?	3 points
		o) Retroit is performed for?	3 points
		Complete structure	
		To restore functional performance to acceptable levels	
		Upgrade to currently acceptable standards	
		Oppries to currently acceptable standards	
		None of the above	
		No, the answer is incorrect.	
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