

Question 1 (10 marks)

You are the Manager of Electrical Engineering at an underground mine. The mine is to install a dewatering pumping system at the rear of the longwall blocks. The pumping system will be installed within a cased borehole from the surface to an area in the goaf which will become flooded and therefore not be able to be inspected.

Your Mine Operator has requested that you advise him of the requirements to complete the project and an expected time frame. Include the following information:

- a) What type of certification will be required for the installation? (1 mark)
- b) In relation to the electrical installation:
 - i) Which items are 'safety critical' for the electrical installation? (2 marks)
 - ii) Briefly explain why each item in i) above is 'safety critical'? (2 marks)
 - iii) Which items will require a SIL assessment? (1 mark)
- c) On the spreadsheet provided develop an expected project plan from the start of the project to the completion, giving the expected time frames and project tasks (4 marks) See spreadsheet over page.

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Table of Contents Engineering Science N1 Question Paper And Memos

1. Understanding the eBook Engineering Science N1 Question Paper And Memos
 - The Rise of Digital Reading Engineering Science N1 Question Paper And Memos
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Science N1 Question Paper And Memos
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Engineering Science N1 Question Paper And Memos
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Science N1 Question Paper And Memos

- Personalized Recommendations
 - Engineering Science N1 Question Paper And Memos User Reviews and Ratings
 - Engineering Science N1 Question Paper And Memos and Bestseller Lists
5. Accessing Engineering Science N1 Question Paper And Memos Free and Paid eBooks
 - Engineering Science N1 Question Paper And Memos Public Domain eBooks
 - Engineering Science N1 Question Paper And Memos eBook Subscription Services
 - Engineering Science N1 Question Paper And Memos Budget-Friendly Options
 6. Navigating Engineering Science N1 Question Paper And Memos eBook Formats
 - ePub, PDF, MOBI, and More
 - Engineering Science N1 Question Paper And Memos Compatibility with Devices
 - Engineering Science N1 Question Paper And Memos Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Science N1 Question Paper And Memos
 - Highlighting and Note-Taking Engineering Science N1 Question Paper And Memos
 - Interactive Elements Engineering Science N1 Question Paper And Memos
 8. Staying Engaged with Engineering Science N1 Question Paper And Memos
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Science N1 Question Paper And Memos
 9. Balancing eBooks and Physical Books Engineering Science N1 Question Paper And Memos
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Science N1 Question Paper And Memos
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Engineering Science N1 Question Paper And Memos
 - Setting Reading Goals Engineering Science N1 Question Paper And Memos
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Engineering Science N1 Question Paper And Memos

- Fact-Checking eBook Content of Engineering Science N1 Question Paper And Memos
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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