

# DATA COMMUNICATION PRAKASH GUPTA

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**Who discovered data communication?** Donald Davies invented and implemented modern data communication during 1965-7, including packet switching, high-speed routers, communication protocols, hierarchical computer networks and the essence of the end-to-end principle.

**What are the 5 components of data communication?** These are sender, receiver, communication medium, the message to be communicated, and certain rules called protocols to be followed during communication. The communication media is also called transmission media. Figure 11.2 shows the role of these five components in data communication.

**What are the types of data communication in computer network?**

**Which are the data representation methods used in data communication?** The methods used to represent information in computers are known as data representation. The computer system can store a variety of data types. Numeric data, text, executable files, pictures, audio, and video are all examples of computer data representation. To us, as humans, each of these will appear differently.

**Who is the father of data communication?** Claude Shannon's work had profound implications for various fields, including telecommunications, computer science, and cryptography. His ideas formed the basis for the development of digital communication systems, data compression algorithms, and error correction techniques.

**Who is the founder of communication?** Wilbur Schramm is considered the founder of the field of Communication Studies. He was the first individual to identify himself as a communication scholar; he created the first academic degree-granting programs with communication in their name; and he trained the first generation of communication scholars.

**What are the 4 characteristics of data communication?** The effectiveness of a data communications system depends on four fundamental characteristics: delivery, accuracy, timeliness and jitter.

**What is an example of data communication?** A common example of data communication is connecting your laptop to a Wi-Fi network. This action requires a wireless medium to send and receive data from remote servers. The type of data transmission demonstrates the direction in which the data moves between the sender and receiver.

**Why do we need data communication?** The main objective of data communication and networking is to enable seamless exchange of data between any two points in the world. This exchange of data takes place over a computer network. Data refers to the raw facts that are collected while information refers to processed data that enables us to take decisions. Ex.

**Who is the founder of digital communication?** Claude Shannon's legendary 1948 paper, "The Mathematical Theory of Communication" unveiled the vast potential for digital communications and inspired virtually all of the work in digital communications that followed.

**Who discovered communication first?** Communication in Ancient Times The first means of communication was, of course, the human voice but about 3,200 BC writing was invented in Iraq and Egypt. It was invented about 1,500 BC in China. Other civilizations in Central America like the Mayans also invented systems of writing.

**Who invented data network?** BOB KAHN (1938–) AND VINT CERF (1943–) American computer scientists who developed TCP/IP, the set of protocols that governs how data moves through a network. This helped the ARPANET evolve into

the internet we use today. Vint Cerf is credited with the first written use of the word 'internet'.

**Who first discovered data?** The first use of data goes back to 19,000 BC when our Palaeolithic ancestors used a baboon tool called the Ishango bone to perform simple calculations. Back then, there were no calculators, pens, or even paper – as we know, those came much later.

### **Sejarah Pembentukan Lahirnya UUD 1945**

**1. Kapan dan di mana Panitia Persiapan Kemerdekaan Indonesia (PPKI) dibentuk?** Jawab: Pada tanggal 7 Agustus 1945 di Jakarta.

**2. Siapa yang menjadi ketua PPKI?** Jawab: Soekarno.

**3. Apa tugas utama PPKI?** Jawab: Mempersiapkan segala hal yang berkaitan dengan kemerdekaan Indonesia, termasuk menyusun Undang-Undang Dasar.

**4. Kapan naskah Undang-Undang Dasar selesai disusun?** Jawab: Pada tanggal 16 Agustus 1945, dua hari sebelum Proklamasi Kemerdekaan Indonesia.

**5. Siapakah tokoh utama yang terlibat dalam penyusunan UUD 1945?** Jawab: Soekarno, Mohammad Hatta, Muhammad Yamin, Supomo, dan Sayuti Melik.

### **The Carnivorous Carnival: A Perilous Adventure in Lemony Snicket's Series of Unfortunate Events**

**Introduction** The Carnivorous Carnival, the ninth installment in Lemony Snicket's beloved "A Series of Unfortunate Events," takes the Baudelaire orphans on a terrifying journey amidst a sinister troupe of performers. As they navigate this treacherous carnival, they encounter a host of peculiar characters and face harrowing challenges.

**Question 1: Who is the enigmatic Count Olaf in disguise this time?** Answer: Gunther, the fortuneteller

**Paragraph 2** The carnival is home to a colorful cast of characters, including Madame Lulu, a fortuneteller who foretells the children's tragic destiny; Hugo, a man with two faces; Kevin, a contortionist; and Chabo the Magnificent, a hypnotherapist. As the

Baudelaires delve deeper into the carnival, they uncover a sinister plot involving Count Olaf, their relentless nemesis.

**Question 2: What is the carnivorous creature that terrorizes the carnival?**

Answer: A leech

**Paragraph 3** The carnival's namesake carnivorous creature turns out to be a giant leech, which poses a deadly threat to the children. Along with the physical dangers, the Baudelaires must also confront the psychological horrors lurking within the carnival, such as the Hypno-Gaze and the Flaming Sword of Atonement.

**Question 3: What role does Uncle Monty play in the carnival?** Answer: He is the ringmaster

**Paragraph 4** Uncle Monty, the children's kind-hearted uncle, joins the carnival as its ringmaster. However, his presence only highlights the dark secrets and dangers that permeate this grotesque entertainment. As the Baudelaires search for a way to escape, they must grapple with the betrayals and alliances that surround them.

**Question 4: What is the significance of the word "carnivorous"?** Answer: It symbolizes the cruelty and greed that consume the carnival

**Paragraph 5** The carnivorous carnival serves as a metaphor for the harsh and unforgiving world that often confronts the unfortunate. Through its characters and events, the novel explores themes of identity, loss, and the struggle against adversity. As the Baudelaires navigate this terrifying realm, they learn valuable lessons about the importance of courage, resilience, and finding a glimmer of hope amidst the darkness.

**What is included in an operations and maintenance manual?**

**What are the maintenance requirements for fire fighting equipment?**

**What is the maintenance of a fire system?** Regular maintenance of fire alarms involves cleaning and testing each component to ensure optimal performance of all devices over a 12-month period. This way, you can trust that your fire alarm system will work as intended during an emergency.

**What is a manual fire protection system?** Manual Fire Alarm System A building fire emergency notification system consisting minimally of audible and visual alarm notification appliances (i.e., horns and strobes) installed within all common-use areas of a building and manual alarm stations (i.e., pull stations) installed at every exit from every level.

**What should be in an O&M manual?**

**What is the checklist of the operations and maintenance manual?** An O&M Manual checklist typically includes a comprehensive system description, detailed operating procedures, maintenance guidelines, safety protocols, emergency procedures, troubleshooting instructions, and necessary appendices.

**How do you maintain fire fighting equipment?** Sprinkler Systems: Conduct a visual inspection of sprinkler heads for signs of damage or corrosion. Ensure that valves and pipes are in good condition and free of leaks. Verify that water pressure is within the recommended range. Fire Extinguishers: Check the pressure gauge to ensure it is in the green zone.

**What is the NFPA for maintenance?** NFPA 70B details preventive maintenance for electrical, electronic, and communication systems and equipment -- such as those used in industrial plants, institutional and commercial buildings, and large multi-family residential complexes -- to prevent equipment failures and worker injuries.

**What is the NFPA standard for firefighting?** NFPA 1971 protects fire fighting personnel by establishing minimum levels of protection from thermal, physical, environmental, and bloodborne pathogen hazards encountered during structural and proximity fire fighting operations.

**What is preventive maintenance of fire fighting system?** Visual Inspection: Inspect sprinkler heads for corrosion, leaks, or physical damage. Valves and Pipes: Check valves for proper operation and pipes for leaks. Water Flow: Test water flow alarms and ensure they activate correctly. Pressure Gauges: Monitor pressure gauges to ensure they are within operational limits.

**How to maintain a fire safety system?**

**How often should fire systems be checked?** How often should fire detection and warning systems be checked? Routine visual inspections as well as basic tests should be performed ideally once a week. It's to make sure they're working properly and don't need service.

**What is the NFPA 72 basics?** This NFPA 72 course provides a thorough introduction to the fundamentals of fire alarms. Fire Alarm Basics consists of three lessons highlighting the equipment and components that comprise a fire alarm system.

**How to design a fire fighting system?**

**How does a fire fighting system work?** Water-based systems, such as sprinklers, use water to control and extinguish fires. Gas-based systems, such as carbon dioxide systems, displace oxygen to smother the fire. Foam-based systems blanket the fire with foam, separating it from oxygen and suppressing flames.

**How to write an operation and maintenance manual?**

**What should be in an operations manual?** In general, an operational manual will outline the following: History, vision and mission statement. Company organizational structure. Roles and responsibilities of each member of the team.

**What is an example of operations and maintenance?** An example of a general operations and maintenance task is performing oil changes on a vehicle fleet. This can be performed by technicians with a wide range of skill levels. Something more complex, like a transmission replacement, would likely need to be assigned to a more knowledgeable technician.

**How to prepare O&M manual?**

**What is the purpose of the operation and maintenance manual?** An operation and maintenance (O&M) manual is a document that provides essential details about property and equipment upkeep. O&M manuals provide maintenance personnel with detailed guidance on extending asset life cycles, minimizing unplanned shutdowns, reducing maintenance costs, and keeping workers safe.

**What information is contained in the operations manual?**

**What is the most common method used in fire fighting operations?** The most common method of fire suppression is water. In part this is because many fire protection systems in buildings may have been installed before more advanced fire suppression systems were available.

**How often should fire fighting equipment be tested?** A simple weekly test of a fire alarm system is all that's needed to ensure its effective. Other equipment is a little more complicated, for example Fire Extinguishers need to be serviced at least once every year A further discharge check every 5 years for water, foam and powder extinguishers.

**What are the detail of fire fighting equipment?** There are two types of fire-fighting equipment: portable (eg fire extinguishers, fire blankets) and fixed systems (eg fire hydrants, sprinkler systems).

**What is the NFPA 20 rule?** NFPA 20 addresses the entire fire pump room — the pump, driver, controller, as well as water and fuel supplies, valves and other ancillary equipment necessary — to ensure each of the individual components will perform as a whole if the system is activated.

**What is the NFPA 25 maintenance plan?** NFPA 25 is the Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems. The purpose of NFPA 25 is to provide requirements that ensure a reasonable degree of protection for life and property from fire through minimum ITM requirements for water-based fire protection systems.

**What is NFPA 52 code?** NFPA 52, the Vehicular Natural Gas Fuel Systems Code, defines specific safety requirements for NGVs and their fueling facilities. In addition, NFPA 30A applies to facilities that perform maintenance and repair of NGVs, and NFPA 88A applies to parking garages.

**What should be included in an operations manual?**

**What is included in O&M?** An operation and maintenance (O&M) manual is a document that provides essential details about property and equipment upkeep.

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### **What information is contained in the operations manual?**

**What type of details are listed in an operation manual?** Broadly speaking, operations manuals outline the processes necessary to achieve business objectives; they document how to do them, and who is responsible for carrying them out. It's normal for companies to have more than one to cover different business aspects — for example, customer support and marketing departments.

**What is an operations manual template?** An operations manual template is a pre-designed document that outlines its basic structure and content. It usually includes sample text, placeholders for specific information, and formatting guidelines to simplify creating an operations manual for a particular business.

### **How to prepare an operation manual?**

**What should be included in a standard operating procedure manual?** We recommend including the following elements in your SOPs: header, purpose, scope, references and related documents, definitions, roles and responsibilities, procedure, appendices, revision history, and approval signatures (as required).

### **What is included in operation and maintenance manual?**

### **How do you write an operation and maintenance manual?**

**What does operation and maintenance include?** Operations and maintenance management is more general and is a form of preventive maintenance. Operations and maintenance usually includes tasks to maintain equipment before significant issues arise, such as inspections, cleaning, minor part replacement, lubrication, and fluid monitoring.

**What is the structure of the operations manual?** In general, an operational manual will outline the following: History, vision and mission statement. Company organizational structure. Roles and responsibilities of each member of the team.



**What is system operation manual?** An operating manual or system manual should contain all relevant information, features, knowledge, procedures and task to install, update, maintain and remove the product or software. It should also describe the main tasks and solutions to typical problems or questions in detail for the involved stakeholder.

**What do you mean by operations manual?** Meaning of operations manual in English a document that describes in detail the processes and systems that a company uses to produce its goods and provide its services: A successful restaurant should have a simple menu, a solid marketing plan and a detailed operations manual.

**What type of information is contained in an operations manual?** “Operations Manual means a manual containing procedures, instructions, and guidance for use by operational personnel in the execution of their duties.”

**What should a manual include?**

**How to write operating instructions?**

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