

# Video Tutorials (Multi-Language)

Scan the QR codes or click the links below to access chapter-wise video explanations in English, Hindi, and Telugu.

## English Video Tutorials

### Chapter-wise Videos — English

| #  | Chapter                                                            | Core Concept                                | Video Link                                |
|----|--------------------------------------------------------------------|---------------------------------------------|-------------------------------------------|
| 1  | Chapter 1: The Global and National Electronics Landscape           | Geopolitics & Semiconductor Supply Chain    | <a href="#">Bloomberg Primer</a>          |
| 2  | Chapter 1 (cont.)                                                  | Global Semiconductor Market Analysis        | <a href="#">Supply Chain Overview</a>     |
| 3  | Chapter 2: Organizational Framework and Operational Policies       | Manufacturing KPIs & Metrics                | <a href="#">KPIs Explained</a>            |
| 4  | Chapter 2 (cont.)                                                  | Standardized Performance Metrics            | <a href="#">5 Key Inputs</a>              |
| 5  | Chapter 3: Foundational Principles of Electronics                  | Voltage, Current, Ohm's Law Basics          | <a href="#">Electronics For Beginners</a> |
| 6  | Chapter 3 (cont.)                                                  | Logic Gates & Digital Building Blocks       | <a href="#">Understanding Logic Gates</a> |
| 7  | Chapter 3 (cont.)                                                  | All Electronic Components Deep Dive         | <a href="#">Components Explained</a>      |
| 8  | Chapter 4: Professional Role, Competencies, and Career Progression | Cost of Downtime & Business Loss Mitigation | <a href="#">Preventing Downtime</a>       |
| 9  | Chapter 4 (cont.)                                                  | Maintainability & System Reliability        | <a href="#">Improve Reliability</a>       |
| 10 | Chapter 5: Advanced Maintenance Methodologies                      | Maintenance Types Overview                  | <a href="#">Maintenance Types</a>         |
| 11 | Chapter 5 (cont.)                                                  | Breakdown vs. Preventive vs. Predictive     | <a href="#">Maintenance Philosophies</a>  |
| 12 | Chapter 5 (cont.)                                                  | Condition-Based Maintenance (CBM)           | <a href="#">Predictive Maintenance</a>    |

## Hindi Video Tutorials (हिन्दी)

### Chapter-wise Videos — Hindi

| # | Chapter                                                            | Core Concept                            | Video Link                           |
|---|--------------------------------------------------------------------|-----------------------------------------|--------------------------------------|
| 1 | Chapter 1: The Global and National Electronics Landscape           | NPE 2019 & Sarkari Yojanayen            | <a href="#">Drishti IAS</a>          |
| 2 | Chapter 1 (cont.)                                                  | Make in India & NPE Targets             | <a href="#">Lakshman Maaheshwary</a> |
| 3 | Chapter 2: Organizational Framework and Operational Policies       | SOP, PCS, OPS for Quality Engineers     | <a href="#">SOP Training Video</a>   |
| 4 | Chapter 2 (cont.)                                                  | Standard Operating Procedures Explained | <a href="#">Vinayak's Academy</a>    |
| 5 | Chapter 3: Foundational Principles of Electronics                  | Voltage, Current, Resistance Basics     | <a href="#">Patnaik UC Tutorial</a>  |
| 6 | Chapter 3 (cont.)                                                  | Electronic Components & Symbols         | <a href="#">Components Function</a>  |
| 7 | Chapter 4: Professional Role, Competencies, and Career Progression | Maintenance Engineer Job Description    | <a href="#">Tanweer Ahmed</a>        |

|    |                                               |                                  |                                        |
|----|-----------------------------------------------|----------------------------------|----------------------------------------|
| 8  | Chapter 4 (cont.)                             | Top 10 Career Growth Skills      | <a href="#">Career Skills Hindi</a>    |
| 9  | Chapter 5: Advanced Maintenance Methodologies | Types of Maintenance Explained   | <a href="#">AYT India Academy</a>      |
| 10 | Chapter 5 (cont.)                             | Predictive Maintenance Deep Dive | <a href="#">Predictive Maintenance</a> |

## Telugu Video Tutorials (తెలుగు)

### Chapter-wise Videos — Telugu

| # | Chapter                                                            | Core Concept                              | Video Link                            |
|---|--------------------------------------------------------------------|-------------------------------------------|---------------------------------------|
| 1 | Chapter 3: Foundational Principles of Electronics                  | Basic Electronics & Fundamentals          | <a href="#">Technical Gudachari</a>   |
| 2 | Chapter 3 (cont.)                                                  | Electronic Components and Their Uses      | <a href="#">Components in Telugu</a>  |
| 3 | Chapter 3 (cont.)                                                  | Logic Gates & How They Work               | <a href="#">Logic Gates Explained</a> |
| 4 | Chapter 3 (cont.)                                                  | Universal Gates & Digital Circuits        | <a href="#">Digital Electronics</a>   |
| 5 | Chapter 4: Professional Role, Competencies, and Career Progression | Job Roles & Professional Responsibilities | <a href="#">Ravishankar</a>           |
| 6 | Chapter 5: Advanced Maintenance Methodologies                      | Maintenance Types Explained               | <a href="#">Maintenance in Telugu</a> |

## International Standards & Guidelines

- ISO 9001:2015 – Quality Management Systems – Requirements
- ISO 55000:2014 – Asset Management – Overview, Principles and Terminology
- IEC 61508 – Functional Safety of Electrical/Electronic Systems
- IPC-A-610 – Acceptability of Electronic Assemblies
- IPC J-STD-001 – Requirements for Soldered Electrical Assemblies
- National Policy on Electronics (NPE) 2019 – Ministry of Electronics & IT, India

## Recommended Books & Handbooks

- *The Art of Electronics* – Horowitz & Hill (Cambridge University Press)
- *Electronic Troubleshooting* – Daniel Tomal & Neal Widmer (McGraw-Hill)
- *Maintenance Engineering Handbook* – Lindley R. Higgins & R. Keith Mobley
- *Practical Reliability Engineering* – Patrick D.T. O'Connor & Andre Kleyner
- *CNC Programming Handbook* – Peter Smid

End of References