Unit-03

System Documentation Strategy

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Software documentation is a type of documentation that provides information about software products and systems. It typically includes a wide range of documents and materials that describe the features, capabilities, and use of the software.

Software documentation can be organized into different categories, depending on the intended audience and purpose of the documentation.

In general, it is a good idea to create documentation that provides all the information that users need to effectively use and maintain the software.

For end users,

For developers and other technical stakeholders,

For system administrators and other IT professionals,

Types of Documentation

- Project Documentation
- Product Documentation
- Process Documentation
- Technical Documentation
- System Documentation
- User Documentation

Major importances of System Documentation

- Understanding and Communication
- Development and Design
- Problem Solving and Troubleshooting
- Maintenance and Updates
- Knowledge Transfer
- Risk Management
- Decision Support
- Quality Assurance

Benefits of Creating Software Documentation

- Enhanced Understanding
- Facilitates Development
- Simplifies Maintenance

- Effective Troubleshooting
- Risk Management
- Informed Decision-Making
- Quality Assurance
- Collaboration
- Reduced Rework
- Cost Efficiency

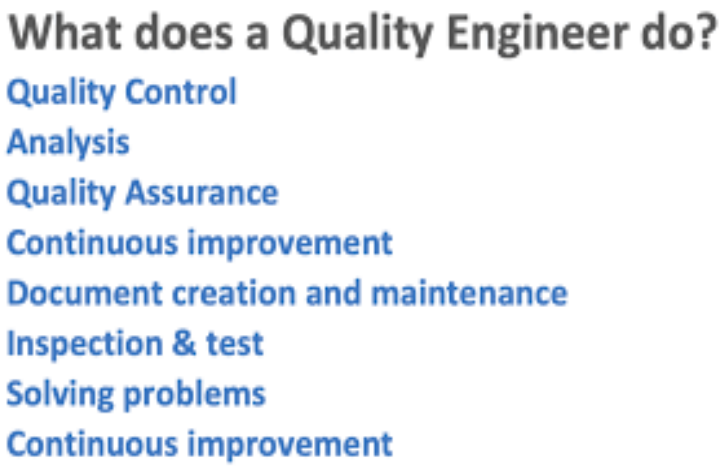
Quality system and engineering data Record

Quality engineering is the discipline of engineering that creates and implements strategies for quality assurance in product development and production as well as software development.

Engineering data record Definition A means of storing change item data and header data for engineering records. Specific engineering record database tables were developed especially to store change items and to enhance performance for engineering records.

It is the management, development, operation and maintenance of IT systems and enterprise architectures with a high-quality standard

“Quality Engineers focus on optimizing product quality”



System design and development data

System design is the process of defining the architecture, interfaces, and data for a system that satisfies specific requirements. It is a structured process that involves several stages, including conceptualization, refinement, and construction. System design requires a systematic approach to building and engineering systems. A good system design requires you to think about everything in an infrastructure, from the hardware and software, all the way down to the data and how it’s stored.

System design and development data

System design is the process of defining the architecture, interfaces, and data for a system that satisfies specific requirements of the system. System design meets the needs of your business or organization through coherent and efficient systems.

System design requires a systematic approach to building and engineering systems. A good system design requires you to think about everything in an infrastructure, from the hardware and software, all the way down to the data and how it's stored.

Database Design is a collection of processes that facilitate the designing, development, implementation and maintenance of enterprise data management systems.

Development Data

Data development involves the creation of data standards, metadata, and data elements that are used to represent real-world facts, concepts, or instructions in a formalized manner suitable for communication, interpretation, or processing by human beings or automatic means.

Data development is a crucial part of the SDLC process, which involves a multistep process from investigation of initial requirements through analysis, design, implementation, and maintenance. The process of data development is complex and requires a lot of effort and experience to design and develop data operations within the system of a company.

Data Accession list (DAL)

A DAL report is a Data Accession List report. It is a document that lists the data files that are included in a submission to the National Center of Information (NCI). The report is used to ensure that all data files are accounted for and that they are in the correct format for submission. The report is also used to verify that the data files are associated with the correct Project and Sample records.

The purpose of the Data Accession List (DAL) is to provide a medium for identifying contractor internal data that has been generated by the contractor in compliance with the work effort described in the Statement of Work.

Data criteria list (DCL)

Data criteria list typically outlines the specific criteria or requirements for handling and managing data within a system or project. It may include details such as data quality standards, security measures, storage specifications and other criteria relevant to data handling.

Describe different issues in a system documentation

Here are some common issues that can arise in system documentation:

Lack of accessibility:

Documentation that is not accessible to all users can lead to confusion and errors. It is important to ensure that documentation is available in multiple formats and that it is easy to read and understand.

Unauthorized information access and leakage:

Unauthorized access to documentation can lead to security breaches and data leaks. It is important to ensure that documentation is stored securely, and that access is restricted to authorized personnel.

Failure to ensure regulatory compliance:

Failure to comply with regulatory requirements can lead to legal issues and fines. It is important to ensure that documentation is compliant with all relevant regulations.

Adding late entries:

Adding late entries can lead to confusion and errors. It is important to ensure that all entries are made in a timely manner.

Documenting subjective data:

Documenting subjective data can lead to confusion and errors. It is important to ensure that all documentation is objective and based on facts.

Using inappropriate abbreviations:

Using inappropriate abbreviations can lead to confusion and errors. It is important to ensure that all abbreviations are appropriate and well-defined.

Accepting incomprehensible orders:

Accepting incomprehensible orders can lead to confusion and errors. It is important to ensure that all orders are clear and understandable.

Digital file management chaos:

Digital file management chaos can lead to confusion and errors. It is important to ensure that all files are organized and easy to find.