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reliability definitions 13 maintainability the measure of the ability of an item to be retained in or restored to specified condition when maintenance is performed by personnel having specified skill levels using prescribed procedures and resources at each prescribed level of maintenance and repair

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seasoned in maintenance and engineering you ve put a lot of thought into how to implement the key reliability and maintenance r m strategies before the plant starts up you determine the key processes that must be in place including the organization to support it are develop and document pm eccm for all equipment

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1 identify assets in a master asset list to begin determine the selection criteria decide the data components and organize the criteria to aid in finding maintaining and analyzing data when selecting criteria focus on distinguishing characteristics the definition of an asset establishes the physical scope of the program

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digital reliability and maintenance drm encompasses both those elements and underpins them with a set of enablers the infrastructure processes and tools companies need to manage their assets data and people in improving asset reliability and maintenance performance exhibit digital reliability enablers

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the difference between maintenance and reliability the main goal of the maintenance actions we take and the reliability techniques we apply is to minimize downtime and ensure high levels of asset performance but here is where the similarity ends to understand how they differ we have to talk about the way a piece of equipment is designed

## develop a maintenance and reliability plan aiche May 06 2023

the goal of a main tenance and reliability program is to deliver a proper balance of maintenance activities primarily those aimed at iden tifying impending failures to allow for timely corrective actions the optimal maintenance and reliability program for a plant provides the right maintenance on the right assets at the right time

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maintenance and reliability key performance metrics equipment fails employees gripe everything goes wrong but you can t figure out where to start fixing your maintenance organization or how because you don t know where you re at typical challenges that you face with maintenance and reliability metrics or key performanc indicators kpis

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sometimes referred to as maintainability mttr is the measure of the department s ability to perform maintenance to retain or restore assets to a specified condition it measures the average time required to restore an asset to its full operational condition after a failure this measurement typically is expressed in hours

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third a selective maintenance decision model that maximizes the system s mission reliability is developed in consideration of the uncertain factors within the operation process finally a case study of a ferrite phase shifting unit manufacturing system is conducted to validate the proposed approach

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the definition of maintenance is the act of maintaining the state of being maintained care or upkeep of machinery the process of maintaining or preserving someone or something the process of keeping something in good condition the work of keeping something in proper condition ideon maintenance and reliability definitions

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