



PROCESS TYPE	EN17007's MAINTENANCE PROCESSES	MAINTENANCE CHAPTERS						MAINTENANCE SUBJECTS
		Maintenance management	Maintenance within Physical Asset Management	Maintenance execution	Maintenance engineering techniques	Health, safety and environment in maintenance	Maintenance support	
MANAGEMENT	MAN - Manage maintenance (strategy and improvement, human resources, continuous improvement, compliance, etc.)							Relations between maintenance and other processes
								Maintenance process description – roles & responsibilities
								Life cycle management
								Life cycle extension
								Maintenance, and investment decisions
								Rebuilding & Reinvestment strategies
								Relations with auditing & safety organizations
								Uncertainty in maintenance management
								Maintenance and Sustainability
								Maintenance and industry 4.0
								Total Productive Maintenance
								FRACAS (Failure Reporting Analysis Corrective Action System)
								Value based maintenance
REALISATION	COR - Restore the items in required state (Diagnose the state of the faulty item) (see ACT process for tasks implementation)							Fault diagnosis Root Cause Analysis
REALISATION	PRV - Prevent undesirable events by avoiding failures and faults (Characterize undesirable events and use and update maintenance plans) (see ACT process for tasks implementation)							Criticality analysis (RCM, ...) Maintenance and risk management (RBI, ...)
REALISATION	ACT - Implement preventive and/or corrective actions on the item							Work preparation & scheduling Shutdown & turnaround management Condition monitoring techniques (vibration analysis, thermography, tribology, etc.) Non Destructive Testing (ultrasonic testing, Eddy current, radiography, etc.) Diagnosis & Prognosis and Predictive maintenance Equipment health analysis Ageing and degradation mechanism modelling Remaining useful life assessment e-maintenance Operator Based Maintenance Remote maintenance Disassembly and reassembly processes Qualification of equipment
REALISATION	IMP - Improve the items							Reliability & maintainability improvements
SUPPORT	BUD - Budget maintenance of items							Replacement investments Budgetary control
SUPPORT	DOC - Deliver the operational documentation							Maintenance knowledge & best practices Maintenance documents Maintenance standards
SUPPORT	DTA - Manage data							Maintenance data collection Performance indicators & Dashboards Big data for maintenance and asset management
SUPPORT	HSE - Ensure personal health and safety to individuals and preserve environment in maintenance							Occupational diseases and accidents Risk assessment in maintenance Good practices in safety Good practices in environment preservation
SUPPORT	IST - Provide the needed infrastructures							Maintenance of real estates Facility management
SUPPORT	MRQ - Deliver maintenance requirements during items design and modification							RAMS management during design Maintainability studies Design out maintenance Integrated Logistic Support
SUPPORT	OPT - Improve the results							Lean Maintenance Decision making in maintenance Benchmarking Maintenance process diagnosis & audits Modelling and simulation of maintenance strategies Customer satisfaction surveys Best practices identification Tools for expert evaluation Human error analysis
SUPPORT	RES - Provide internal human resources							Education & training in maintenance, E-learning in maintenance Competences, qualification and Certification of maintenance personnel Relations between Operation and Maintenance staff
SUPPORT	SER - Provide external maintenance services							Contracting & outsourcing & insourcing
SUPPORT	SPP - Deliver spare parts							Spare part management Obsolescence management
SUPPORT	TOL - Deliver the tools, support equipment and information system							Maintenance Information Systems Instrumentation & Wireless techniques Visualization for maintenance diagnosis Traceability Augmented reality techniques Robotics and remote handling Maintenance tasks modelling and simulation