5.a Define preemptive maintenance protocols and early diagnostic maintenance protocols

Functional Area: QA

Assessment criteria	Knowledge	
 LOSa.1: Applies techniques of pre-emptive maintenance at mechatronic systems, realising operations and interpreting plans of maintenance. Recognises different types of mechatronic systems, applying specific techniques of pre-emptive and/or early diagnostic maintenance. Substitutes elements, configure and parameterize controllers and records the works carried out. Uses CMMS software management for remote maintenance. Maintenance Systems IIOT-Industrial internet of things	 Interpretation of plans of maintenance and documents of registry. Maintenance and adjustment of mechatronic elements. Machines, equipment, assembly devices, tools and resources employed at the maintenance. Techniques and procedures for the replacement of simple elements. Measurement and diagnostic equipment and techniques. Use of digital management maintenance systems resources (CMMS) Intelligent sensor for data acquisition (IIOT) 	
	 Identifies the procedures described in a maintenance intervention plan. Identifies equipment and items to be inspected based on maintenance schemes, plans and programs. Select the right tools for maintenance. Applies techniques of observation and measurement of variables in the systems to obtain data from the machine or the installation (noises, vibrations, levels, consumption, temperatures, flow, pressures, voltage, among others). Compare the results with the set benchmarks. Properly records detected anomalies and data required for machine history. Apply the techniques for replacing the elements. Assertively manages and simulates digital maintenance management software. 	

٠	Understand descriptions, specifications, manuals and other info typical of the profession in English and prepare them for the next phase of project/Customer in understandable manner.
•	Ability to communicate effectively, orally and in writing with "engineering" community and with "society", extrapolating concepts for "non-experts) through an abstraction approach.