APPLICATION OF INTERNATIONAL STANDARDS

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IDEA

I propose a project of international standards applicated to Nica`s automated systems.

We are going to manage the processes involved in each automated systems steps, in wich we have to planify all these steps with all activities included, so we will have a complete scenary of the proyect, this is the first step of the project, is called project context.

Then, we are going to evaluate the project context, with a SWOT analysis, assess risks and opportunities, and then popose objectives.

Secondly, we introduce to international standards, in this part of the project we are going to identify what legal requirements we must comply with, and integrate national standars, applied to atomated systems, for example, integrate ISO 12207, ISO 15288, ISA 101, and for quality and environmental requirements ISO 9001 and ISO 14001, there are more international standard we can apply with.

MAIN PURPOSE
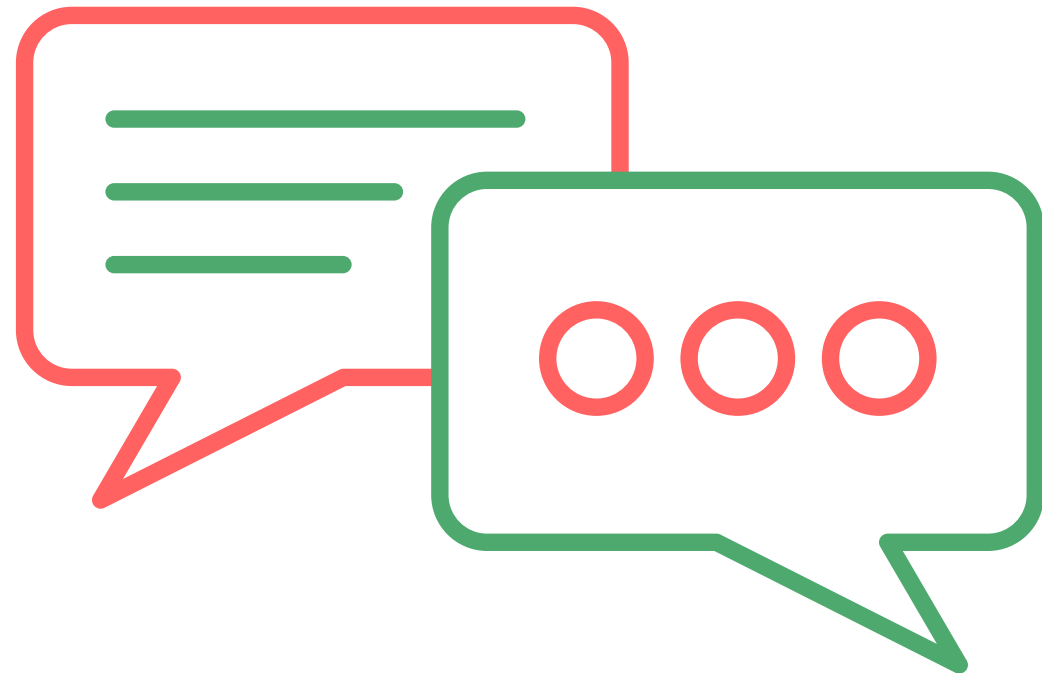
The main purpose is to planify tasks, identify strenghts, weakness, oportunities and risks, so we can fix them and continually improve all processes.

Also, we can manage to apply to certifications, accreditations and audits, which allow us to achieve prestige, security and collaboration and business projects in the country and in the world.

I can work in my tasks associated to automated systems and also in the project, if you consider it appropriate, it is hard work but it has quite a few benefits both internally and externally.

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ISO 12207 IS AN INTERNATIONAL STANDARD FOR SOFTWARE LIFE CYCLE PROCESSES. IT DEFINES A SET OF PROCESSES AND ACTIVITIES THAT ARE INVOLVED IN THE DEVELOPMENT AND MAINTENANCE OF SOFTWARE SYSTEMS.
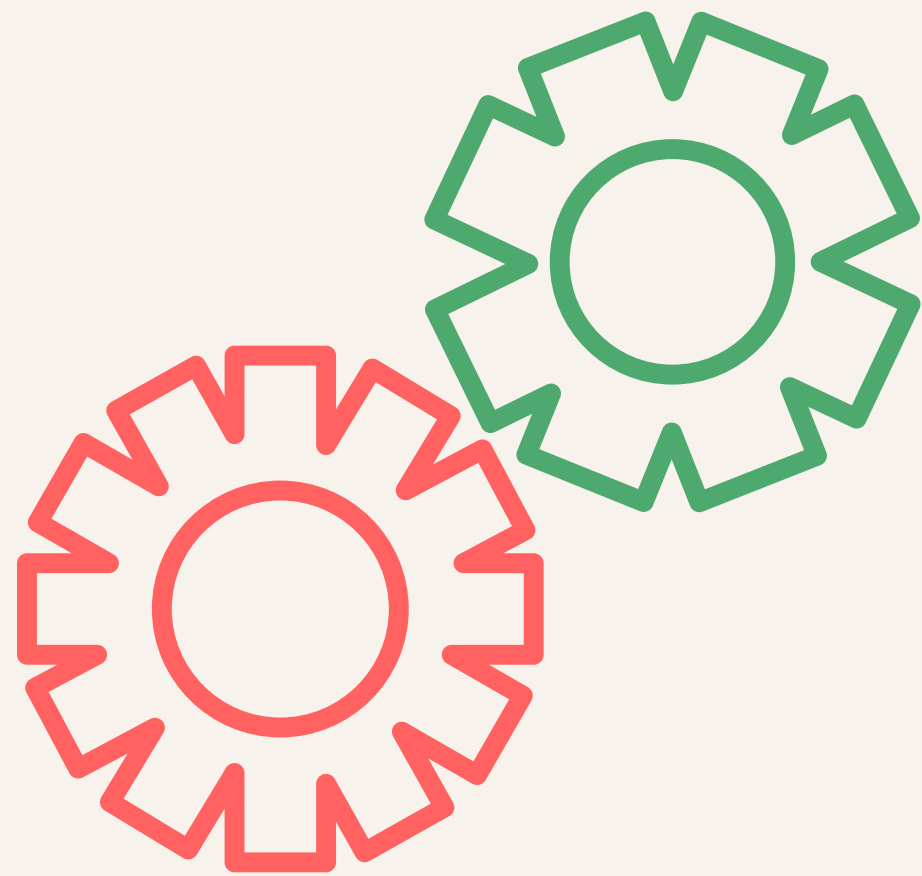
PLANNING

vdefine the boundaries of the software development project, including its objectives, features, and constraints.

Develop documented processes and procedures for each stage of the software life cycle

Create a detailed project schedule, considering dependencies and milestones.

DEVELOPMENT

Gather, analyze, and document user and system requirements. Create a detailed specification that serves as a blueprint for the software.

Break down the high-level design into detailed specifications for individual components. Code the software according to the design, following coding standards and guidelines.

TESTING

Verify the interactions between different units or modules to ensure they work together as intended

Evaluate the complete system to ensure it meets specified requirements.

MAINTENANCE

Address and resolve reported issues (bug fixes) and implement new features or improvements (enhancements).

Keep documentation up-to-date to reflect the current state of the software and its supporting processes.

CERN TAKES ENVIRONMENTAL SUSTAINABILITY SERIOUSLY AND IMPLEMENTS MEASURES TO MINIMIZE ITS IMPACT.

FOR ENVIRONMENTAL CARE, ISO 9001 AND ISO 14001 STANDARDS ARE COORDINATED, FOR THE CARE, MANAGEMENT AND CORRECTION OF DISASTERS CORRESPONDING TO ENVIRONMENTAL CARE.
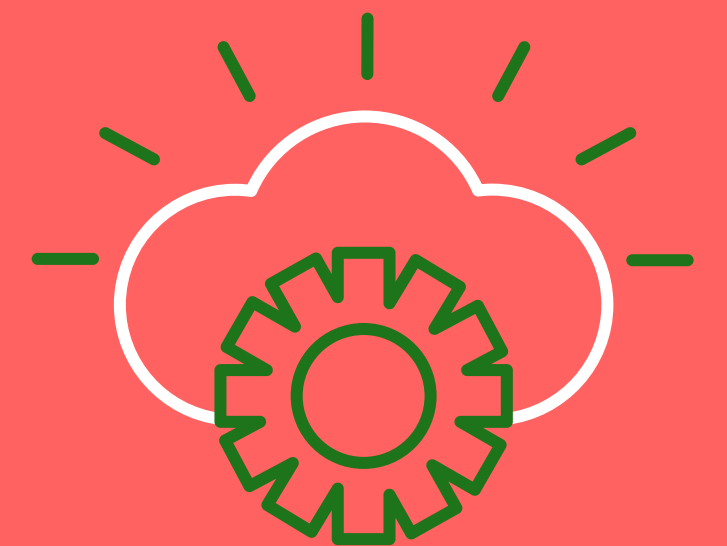
INTERNATIONAL STANDARDS

Cooling systems, especially at large scientific facilities such as CERN, can be potential sources of ozone emissions. The use of refrigerants without ozone or with a low ozone depletion potential is essential. International standards, such as ISO 5149, specify requirements for the safety of refrigeration systems.

Implement emissions monitoring systems to evaluate and control the amount of ozone released into the environment. ISO 14956 is an international standard that specifies methods for the measurement of chemical compounds in atmospheric emissions.