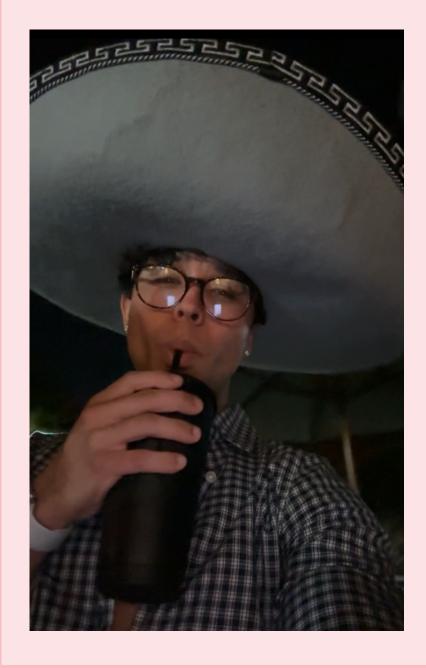
## INTERNATIONAL

## STANDARDS

OSCAR V\ZQUEZ

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### Importance of standards:

- Standards reflect the shared values, aspirations, and responsibilities we as a society project upon each other and our world.
- When applied to particle colliders, adherence to international standards becomes particularly crucial due to the complex nature of these scientific instruments.
- accredit audits and demonstrate that the project is safe, sustainable, legal and efficient

Standardization is important to scientists and regulators to ensure the quality and operation of research processes, as well as the safety and efficacy of the attendant research products.

### IMPORTANT POINTS

Ensuring Experimental Consistency

Safety Protocols and Procedures

Interoperability of Control Systems:

Human-Machine Interface (HMI) Design:

Quality Assurance & Compliance with Environmental Standards:

#### WHATDOES

International Organization for Standardization

Develops and publishes international standards to ensure the quality,

Areas, including technology, manufacturing, healthcare, and more.

Voluntary



#### WHATDOES

International Society of Automation



Individuals and organizations involved in industrial automation and control.

Develops standards, provides training and education, and facilitates networking and collaboration within the automation community.

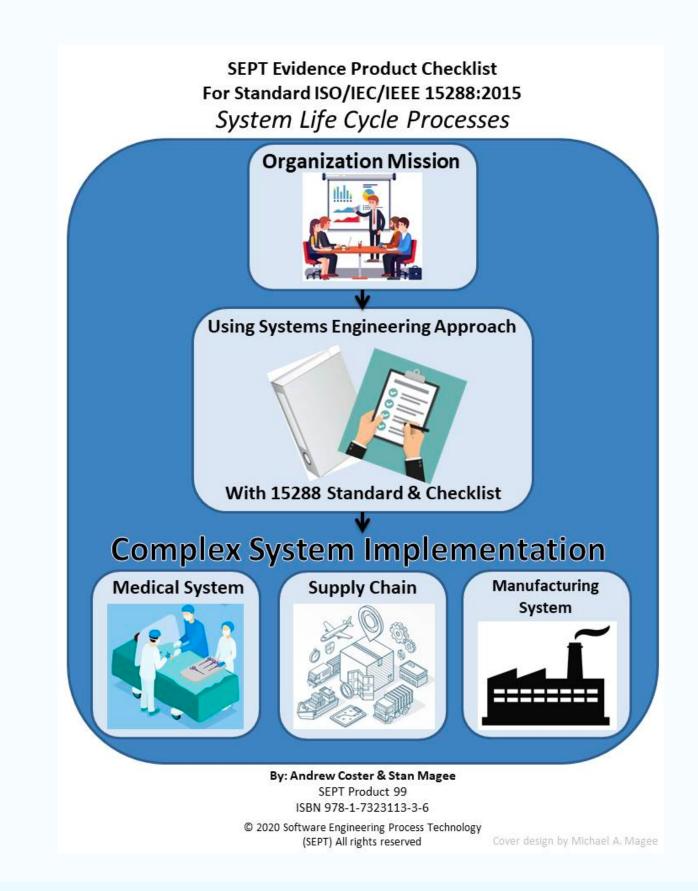
ISA is ISA 101



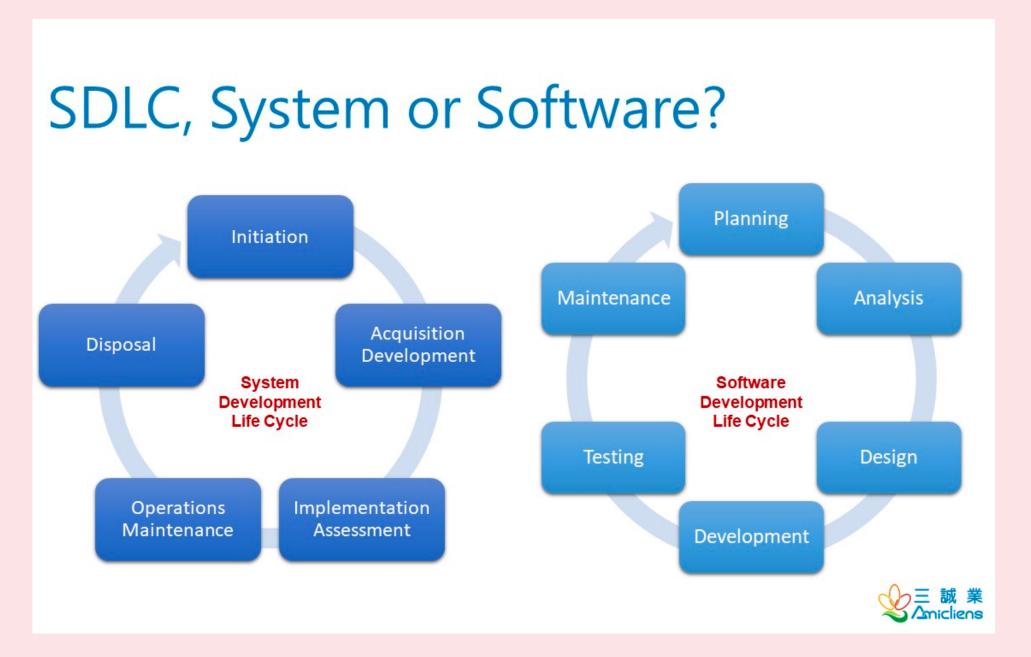
#### ISO 15288:2015 - SYSTEMS ENGINEERING:

DESCRIPTION: THIS STANDARD ESTABLISHES A SYSTEMS ENGINEERING APPROACH TO THE DEVELOPMENT, IMPLEMENTATION AND OPERATION OF SYSTEMS.

IT PROVIDES A FRAMEWORK FOR PROCESS MANAGEMENT THROUGHOUT THE SYSTEM LIFECYCLE.



#### ISO 12207 - SOFTWARE LIFE CYCLE PROCESSES:



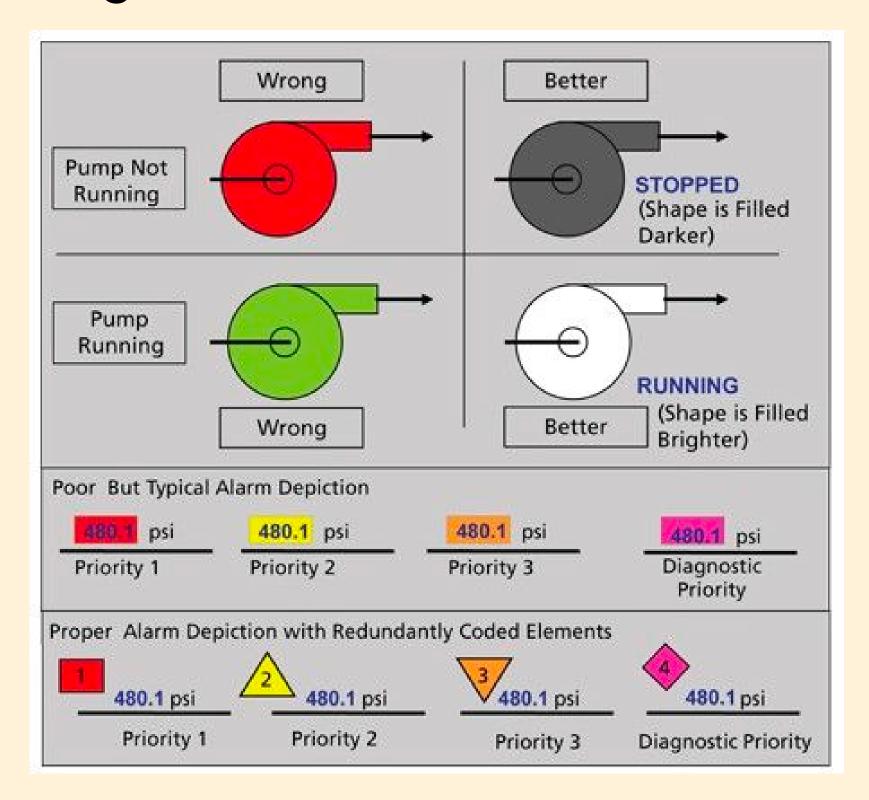
DESCRIPTION: THIS STANDARD FOCUSES
ON PROCESSES RELATED TO THE
SOFTWARE LIFE CYCLE, FROM ITS
INCEPTION TO ITS EXECUTION.

PROVIDES A FRAMEWORK FOR PLANNING, IMPLEMENTING AND EVALUATING SOFTWARE PROCESSES.

## ISA 101 - Human-Machine Interfaces for Automation Systems:

DESCRIPTION: ISA 101 FOCUSES ON THE DESIGN AND IMPLEMENTATION OF GRAPHICAL USER INTERFACES (HMI) FOR INDUSTRIAL AUTOMATION SYSTEMS.

IT AIMS TO IMPROVE THE EFFECTIVENESS AND EFFICIENCY OF SYSTEM OPERATION THROUGH INTUITIVE GRAPHICAL INTERFACES.



# Thanks for Listening!

SEE YOU NEXT TIME!