

Process Safety Fundamentals (PSF) at Enap

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**PREVENTING PROCESS SAFETY EVENTS WITH
THE IOGP PROCESS SAFETY FUNDAMENTALS**

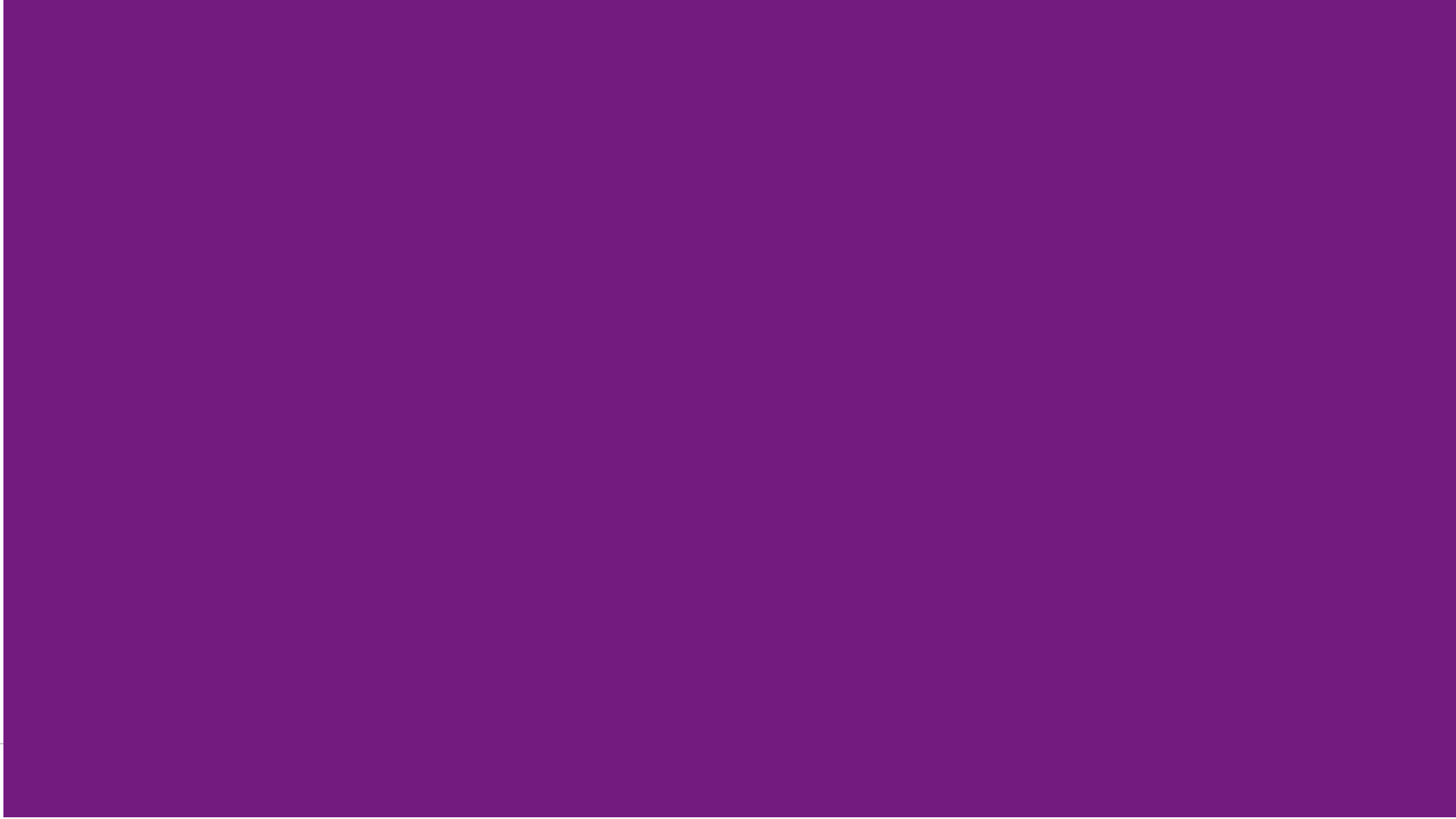
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2025



PROCESS FOR DEFINING PSF

PARTICIPATORY CREATION, LEVERAGING INTERNAL CULTURE AND INDUSTRY EXPERIENCE



Workshop on defining the PSF of Enap processes. (August 2024)



Launch of the PSF
November 29, 2024



Training and Deployment through
Internal Monitors , January 2025
to date



Benchmark analysis of industry best
practices. July to August 2024



We received feedback from over
120 professional workers,
September 2024



Verification question guides were developed and
integrated into the findings management system.
October to December 2024





PSF WORKSHOP

- Specialists to develop and validate ENAP's PSF
- Participation of members of General Management.
- Included operations, maintenance, process safety, and HSE (Health, Safety, Environment, and Environment) professional.
- Analysis of the PSF industry.
- Based on the benchmark and the internal experience, an initial proposal was defined and drafted.





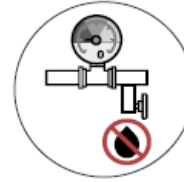
We know and respect hazards



We walk the processing facilities



We ensure the sustain of the barriers



We ensure safe isolation



We comply with our procedures



We checked absence of containment losses



We recognize and manage of change



We monitor critical operations on the field

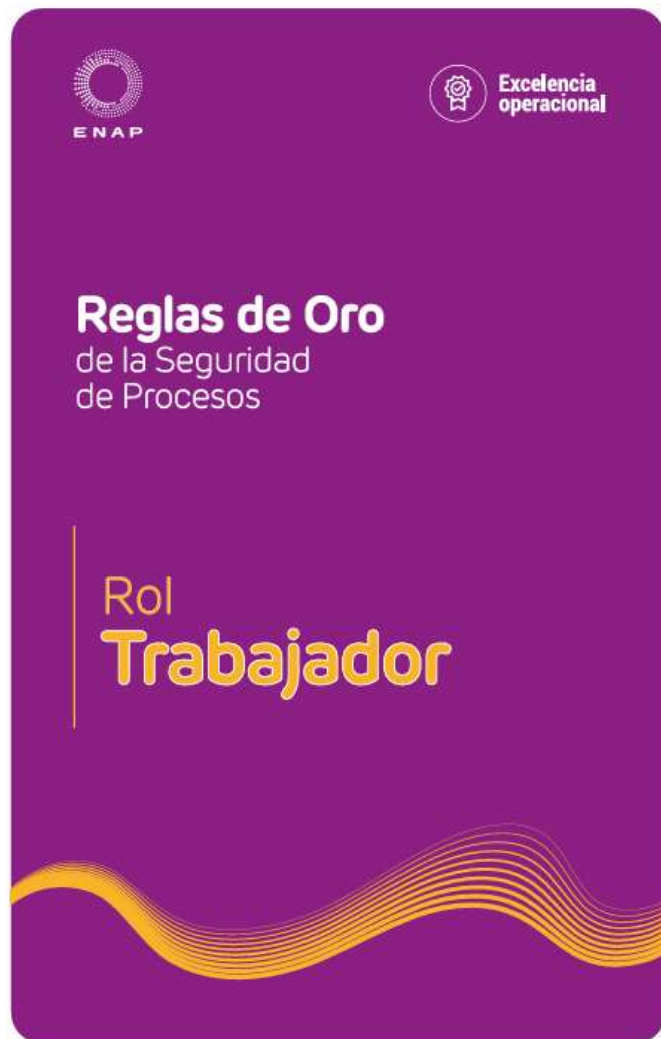


We operate within safe limits



We report and manage loss of containment

STRUCTURE OF THE GUIDES



Reglas de Oro
de la Seguridad de Procesos
Rol Trabajador



Regla de Oro N°5 Operamos dentro de los límites seguros

Operamos dentro de los límites seguros, estamos atentos a las señales de posibles desviaciones y respondemos a las alarmas.

ROSP (golden rules of process safety)

Description

Objetivo

Asegurar que el personal conozca y respete los límites seguros de operación del proceso. Además, que el personal sepa qué hacer ante las desviaciones y alarmas del proceso.

Objective

Conocimiento de los límites Sí ☐ NO ☐	1• ¿Conozco los límites seguros de operación de mi área?
	2• ¿Sé cómo controlar que la operación se mantenga dentro de los límites seguros?
Conocimiento para respuesta a desviaciones Sí ☐ NO ☐	3• ¿Sé cómo actuar ante una variación operativa fuera de los límites de seguridad?
	4• ¿Conozco y sé cómo actuar ante las alarmas del área?
Capacidad para verificar cumplimiento Sí ☐ NO ☐	5• ¿Dispongo de los equipos / herramienta para poder verificar que la operación se mantiene dentro de los límites seguros?
Mitigación de alarmas con fallas Sí ☐ NO ☐	6• ¿Conozco el plan de mitigación para trabajar con alarmas con fallas o falsas alarmas?

Verification question guides

Training workshop for monitors of PSF



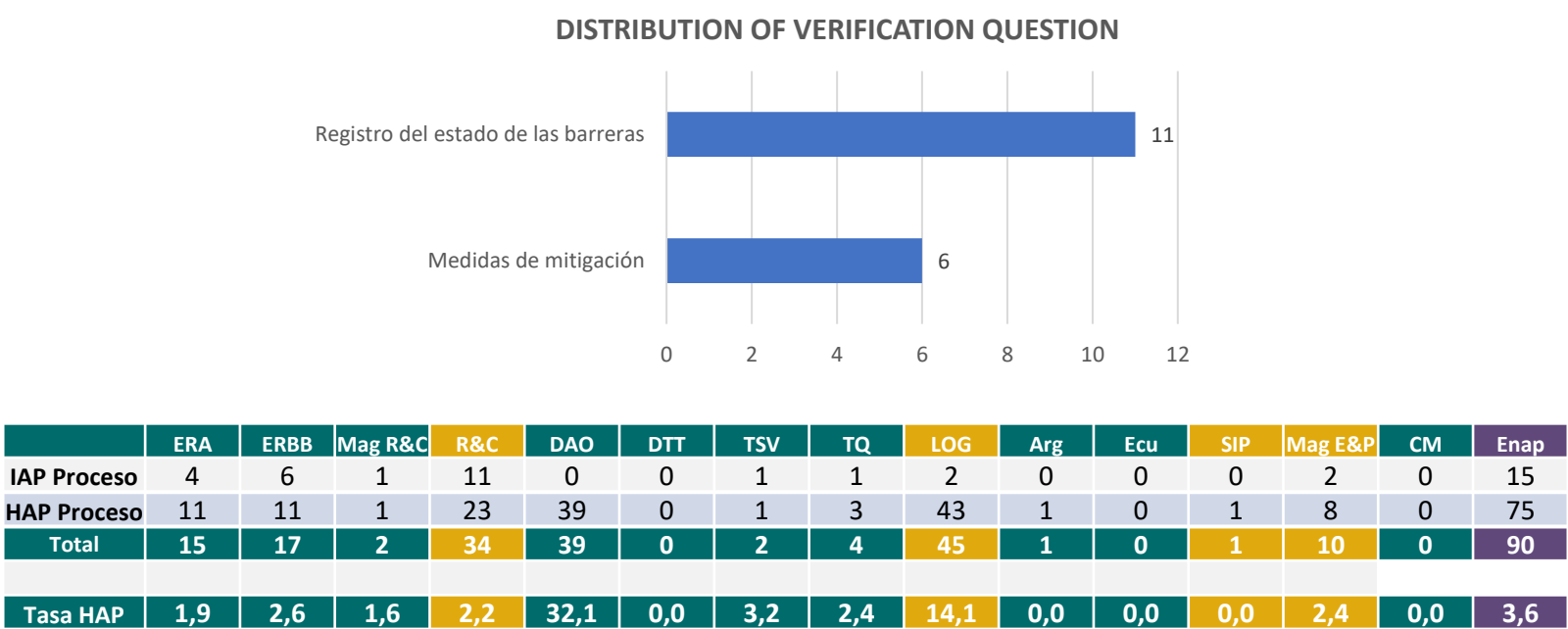
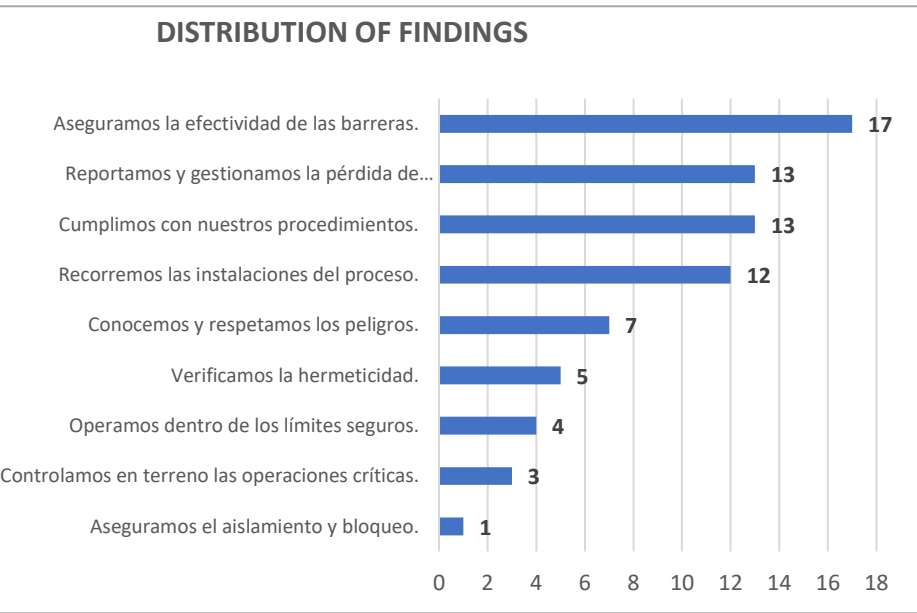
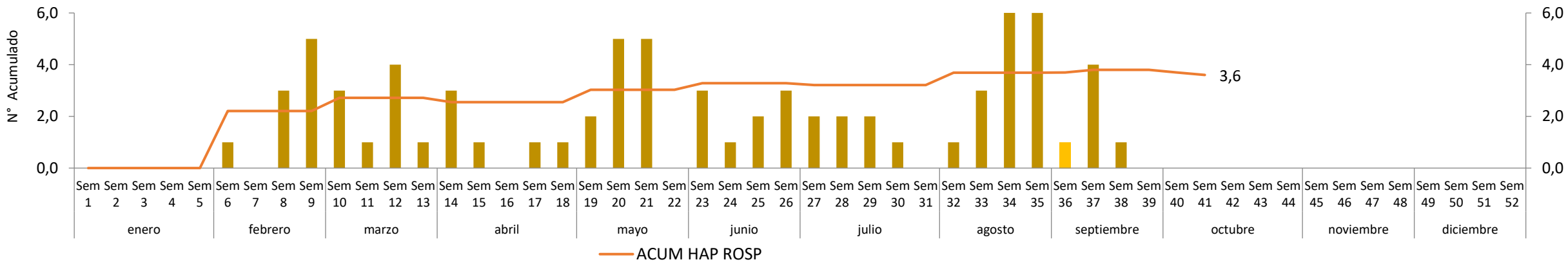
RESUMEN DE PARTICIPACIÓN POR TALLER

WS N°	Project	Date	Duration [hrs]	Number of participation	% monitor accredited
3	PSF at Enap	December 2024	8	45	88%

- Contextualizing the project within of ENAP's Operational Excellence corporate initiative.
- Integration and alignment with Leadership Practices and Life Saving Rules.
- Group dynamics based on active learning and analysis of real cases.



FINDING GOLDEN RULES PROCESS SAFETY 2025



Thank you.

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