Versión/Fecha:	Versión 1 - 22 de noviembre de 2018

Propuesta *Template*

Título del Projecto/Initiativa

Gestión integrada de eventos extremos hidrometeorológicos

Introducción

A general description of the initiave that summarizes the key goals and states why it is important to the region.

Los problemas que se generan por déficits y/o excesos de precipitaciones y caudales recurrentes ocasionan un gran impacto en los habitantes de zonas urbanas, suburbanas y rurales, pérdidas en vidas humanas, bienes personales y las actividades socio-productivas como en el ambiente en general.
Para evitar esto es necesario desarrollar, aplicar o implementar métodos de pronóstico hidrometeorológico y sistemas de alerta temprana; planificar y ordenar el uso del territorio; diseñar y construir adecuadamente las obras necesarias de aprovechamiento y control y establecer medidas que permitan minimizar el impacto de esta problemática que afectan los distintos territorios.

Audiencia

Primary audience, and any secondary audiences, if they will impact any of your decisions

The assumed current knowledge and skills, or prerequisite knowledge and skills, of the primary audience, and any other characteristics that will guide your decisions.

Profesionales universitarios (ingenieros, geólogos, arquitectos, etc.), tomadores de decisión.

Deben tener conocimientos de probabilidad y estadística, hidrología y el sistema climático.

Objetivos del entrenamiento

How the initiative is expected to impact the countries and region

1. Analizar y sintetizar la información hidrometeorológica básica para determinar la probabilidad de ocurrencia de los eventos extremos.
2. Determinar umbrales de alerta en función de la vulnerabilidad física del área de interés.
3. Proporcionar herramientas para regular el uso del territorio.

Necesidades del aprendizaje

Job competencies to be addressed by the training. How these were identified.

Servicios Meteorológicos e Hidrológicos. Funcionarios gubernamentales, nacionales, estatales y locales. Agentes de Protección Civil. Organismos vinculados a la gestión de los recursos hídricos.

Learning Outcomes

Desired learning outcomes of the planned event, written in terms of skills that can be assessed. You may want to begin with the statement: "After completing the training, participants will be able to…"

Specific performance improvements desired

Content Scope

For a training initiative, include a high level list of all topics you feel are necessary to cover and/or the skills that must be developed. If you think it will help clarification, state what will NOT be covered.

El Sistema climático. El ciclo hidrológico. Procedencia de la información básica. Redes de monitoreo. Análisis de los eventos extremos de lluvia y caudal. Línea base de precipitaciones y caudales. Definición de umbrales. Pérdidas socio-económicas derivadas de los eventos extremos. Beneficios asociados a una gestión integrada de los eventos hidrometeorológicos extremos. Planificación y ordenación territorial. Medidas no estructurales.

Constraints and Risks

List all constraints on the training project. List concerns that could impact project success (risks).

Constraints might include:	*Risks to the project might include:*
• *Time available* • *Budget available* • *Number and location of students* • *Skills and experience of training staff* • *People with content expertise available* • *Facilities and technologies available*	• *Unclearly defined requirements or needs* • *Limited existing content resources* • *Limited training staff experience* • *Large scope or complexity* • *New training approaches being used* • *Technology limitations* • *Limited training staff availability* • *Significant schedule constraints* • *Funding risks*

Soluciones del aprendizaje

*List the learning solutions (modes of training) used and **why** you have chosen them. For example:classroom training, online learning, blended learning, on-the-job training, online resources for self-directed learning, coaching or mentoring, etc.*

Modos de entrenamiento:
Se sugiere realizar un entrenamiento virtual que incluya una introducción a la temática, conceptos básicos, presentación de los materiales de estudio.
Esta metodología se complementará con una instancia presencial en la cual los participantes deberán presentar su caso de estudio en una modalidad tipo taller.

El curso está planificado para que la instancia presencial sea de una semana (30 horas)

Learning Assessment

Describe your plan for assessing whether learnersbefore, during, and/or after the course, including tests, exercises, graded activities, and projects or products to be evaluated. Describe the use of self or peer assessment, if used. Show how assessment is linked to the Learning Outcomes.

Training Evaluation

Methods you will use to evaluate the effectiveness of your training, including surveys, interviews, post-course feedback, long-term impacts evaluation, etc.

CC BY SA

Learning Activities

Describe the major learning activities that will be included, including lectures, readings, cases, discussions, exercises, assignments, simulations, role-play, etc.

Describe the roles of trainers and learners during the activities

Recursos Humanos

The coordinating institution if a collaborative project.
Internal resources: project manager, project lead, content experts, teachers, developers, training support, etc.
External resources: primary decision makers, content experts, reviewers, translators, etc.

La institución coordinadora si es un proyecto colaborativo: UNIVERSIDAD NACIONAL DEL LITORAL. FACULTAD DE INGENIERÍA Y CIENCIAS HÍDRICAS – UNIVERSIDAD CENTRAL DE VENEZUELA. DEPARTAMENTO DE INGENIERÍA HIDROMETEOROLÓGICA.

Recursos internos: MARCELA PEREZ – ABRAHAM SALCEDO

Financial Resources

ñññññ

Learning Resources and Tools

List existing resources you will use for readings or presentations, activities, case studies, data, etc. Describe content resources you will need to search for.

Describe the technologies that will be used to support training development and delivery, including instructional technologies and operational equipment.

Milestones and Schedule

Outline of major milestones (deadlines) with a real or relative timeline (if you do not yet know the start date of the project). Milestones might include those below, or any additional ones pertinent to your effort.

Project Plan completed *Learning needs assessed* *Learning outcomes reviewed and approved* *Content outline developed* *Learning activities designed*	*Assessment plan complete* *Scheduling of all human, technical, and facility resources* *Learning resources developed or adapted* *Training delivered (begin date/end date)* *Training evaluation complete*