



Instituto
Nacional de
Aprendizaje

**International Seminar:
Anticipation of the demand for professional
training. Progress in foresight.**

Topics to deal with

1. Technological Prospective Experiences
2. Current Status
3. Perspectives

Technological prospective: “Senai model”.

Transfer of methodologies and prospective tools, in the field of the National Service Model of Industrial Learning (SENAI) of Prospecting for Central American countries: 2012 - 2013



Instituto/País	Estudio
INA Costa Rica	<ul style="list-style-type: none"> ▪ Civil Construction
INSAFORP El Salvador	<ul style="list-style-type: none"> ▪ Civil Construction
INTECAP Guatemala	<ul style="list-style-type: none"> ▪ Tourism
INFOTEP República Dominicana	<ul style="list-style-type: none"> ▪ Civil Construction

Prospecting needs in training for generating green jobs: 2012-2015



Organización Internacional del Trabajo



Institute/Country	Study
INA Costa Rica	Neutral Carbon Innovative and environmentally friendly emerging technologies applied to vehicles and their maintenance and repair processes in Costa Rica
INSAFORP El Salvador	Collection and storage of recyclable materials
INTECAP Guatemala	Gastronomy
INFOTEP República Dominicana	Cleaner technologies in land transport and its maintenance processes
INATEC Nicaragua	Organic Agriculture

Activities implemented by INA in the Project

Trainings

- **Costa Rica, 2012**
- **Panamá, 2013**
- **Nicaragua, 2013**
- **Honduras, 2014**
- **Costa Rica INA, 2014**

Presentations

- 4th Meeting of the Latin American Network for the management of people by competencies and sustainable organizations CINTERFOR-OIT, Uruguay, 2012.
- Launching of the Association for the Action on Green Economy (PAGE), Perú, 2014.
- Presentation of final report closing Project FOIL Antigua, Guatemala, 2014.

Results of prospective studies

Vehicle mechanics

Impacted occupations

- Mechanics of hybrid and electric vehicles.
- Mechanics in straightening and automotive painting.

Civil construction

Impacted occupations

- Civil Engineering Technician
- Draftsman and Technical
- Draftsman Construction
- Supervisor Maintenance
- Manager in Buildings Sales
- Assistant Store and Warehouse
- Builder Plumber and Plumber Installer
- Electrician of works and related

New professional figures

- Operator in construction of swimming pools, finishes and related.
- High Density Polyethylene pipe fitter
- Inspector of Road
- Infrastructure Projects
- Fiber optic installer
- Intelligent electromechanical systems installer
- Laboratory assistant

Furniture industry

Impacted occupations

- Operator of processes in the manufacture of wood products and their derivatives.
- Builder of furniture with wood boards and derivatives.
- Cabinetmaker.
- Finishing applicator for wood and related surfaces.

New professional figures

- CNC equipment operator for the furniture industry.
- Project designer or modeler.

Environmental Management

Impacted occupations

- Operators of energy facilities
- Operators of incinerator facilities, water treatment facilities and related
- Forest technicians

New professional figures

- Environmental Management Technician
- Maintenance in clean technologies Technician
- Agricultural producer in low emissions

Current status

Personal training in methodology

Adaptations to the SENAI model

Methodological guide for technological prospecting

Impact on professional training

Investment projects according to emerging technologies

Perspectives

Structure that performs functions at the institutional level.

Prospective methodology that can be adjusted to the national and institutional reality.

Plan the development of personnel competencies

Input for the National Qualifications Framework

Continuous updating on different models of prospection, innovations and events of interest.



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Declining men and countries spend their lives remembering where they come from; ingenious men and strong countries only need to know where they are going to.

José Ingenieros (1877-1925)
Filósofo y psicólogo argentino.

Gloria Acuña Navarro
gacunanavarro@ina.ac.cr