Prof. MSc. Fabián Benzo Moreira
History

2007

STP Trainee
Mitsui Chemicals Inc.

2015

STP-LA Proposal → Project
IUPAC 48th General Assembly

2016 / 2018

STP-LA 1
STP-LA 2
Objectives

- To train professionals with chemistry knowledge, in SHE&S, promoting a culture that prioritizes prevention to protection.

- To improve the management of chemicals products in Latin American, diminishing the probabilities of injuries, illness and contamination caused by working with chemical products.

- To strengthen the STP and the presence of IUPAC in Latin American.
Criteria for Selection of Trainees

- Professional chemists.
- Engaged in aspects of SHE.
- Involved in chemical organizations, universities or governmental institutions.
- Commitment and capacity to disseminate knowledge gained and influence in their places of employment and elsewhere within their country.
Topic covered

- Basic concepts
- Occupational safety
- Chemical products
- GHS
- Emergencies
- SHE&S Management
- Security
- SH&E culture
Methodology

- 80 - 90 hours training over 2 weeks
- Master classes
- Exercises in the classroom
- Practical experiences
- Videos
- Visit to chemical companies
- Activities on the field
- Evaluation of knowledge before and after training
- Application project
STP-LA 1 (2016)

- 44 candidates
- 10 countries

- Comprehensive management system in the upper and basic organic chemistry laboratories of the National University of La Plata (Argentina).

- Importance of chemical safety application during teaching and research activities at the Zulia University (Venezuela).

- Training process on chemical safety aspects (Ministry of Health, Costa Rica).

- Strengthening chemical safety program for Integral Responsibility Colombia member companies (Integral Responsibility, Colombia).
39 candidates
12 countries

- Strengthening the chemical handling regulations in Bolivia (Occupational Safety and Health Bolivian Society).
- Preparation of guidelines for conducting health surveillance of populations exposed to chemicals in Brazil (Ministry of Health, Brazil).
- Institutional strengthening for the safe management of chemicals in El Salvador (Ministry of Health, El Salvador).
- Strengthening of chemical safety in the Faculty of Chemistry and Pharmacy (National Autonomous University of Honduras).
- Implementation of the ISO 45001: 2018 standard in the Site of the Specialized Institute of Analysis in Corozal (University of Panama).
Gap of knowledge level of trainees

<table>
<thead>
<tr>
<th>Trainee</th>
<th>Before*</th>
<th>After*</th>
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</thead>
<tbody>
<tr>
<td>De Oliveira, Natiela</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>García, Pablo</td>
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<td>5</td>
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<tr>
<td>Quintero, Fanny</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>Rada, Ruben</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>Romero, Gracia</td>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

* Maximum: 10
STP-LA

- 83 candidates
- 15 countries

- 2 projects cancelled.
- 4 projects in incipient state of implementation.
- 3 projects in advanced state of implementation.

http://stp-la.fq.edu.uy
Lessons Learned

- The contents, duration, methodology, teaching materials, trainers, logistic and funds are considered suitable to achieve the proposed objectives.

- It is important evaluate the trainee’s gap of knowledge before and after STP-LA.

- In general, the progress of the projects proposed is less than expected.
Conclusions

- The strengthening of STP-LA program requires increasing the effectiveness of implementation of projects through the improvement of the trainee’s selection process.
- The STP-LA regional program is a valuable extension to the original IUPAC-STP and strengthens that program in developing countries.
- The STP-LA program is a necessary presence and important contribution of IUPAC to disseminate the chemical safety and security in industrial, academic and governmental sectors in Latin America.
- There are still Latin American countries with interest in participating in the STP-LA program that could not be accommodated.
Perspectives

STP-LA 3 2020?