

# EHS Academies in China

## About ISC

At the Institute for Sustainable Communities, we give passionate, committed people the tools, skills, and resources they need to inspire active citizenship, protect the environment, and take on climate change. Our work includes programs that help cities and industry become more resource efficient and transition to low-carbon economies.

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## Overview

ISC's Environment, Health, and Safety (EHS) Academies are helping to green the international supply chain by improving EHS compliance and reducing greenhouse gas emissions in China's two most industrialized provinces, Guangdong and Jiangsu.

ISC understands that the single largest barrier to EHS compliance—particularly in small- and medium-sized factories—is a lack of trained practitioners with the skills to address EHS priorities. The EHS Academies fill this capacity gap by developing a pool of qualified managers equipped to improve EHS performance in their individual factories.

The Academies also tackle climate disruption through customized, intensive trainings that help plant managers apply international best practices in EHS management, effectively measure and lower energy consumption, and reduce greenhouse gas and other harmful emissions.

The Academies equip trainees to move beyond auditing and cosmetic change to achieve meaningful and lasting improvements in EHS performance.

## EHS Academies in Guangdong and Jiangsu

In the fall of 2008, ISC launched its first EHS Academy at Sun Yat-sen University in Guangdong, and in the Spring of 2011, its second EHS Academy in Jiangsu with Nanjing University's School of the Environment. To-date (September 2011), these academies have:

- **Trained over 3,000 factory managers, and certified 500** as EHS managers (90 at the highest level);
- Reached an **additional 2,500 managers** through workshops and seminars;
- Been **rated "excellent" or "very good" by 90% of trainees**, with over 85% reporting positive changes in EHS practice resulting from their participation;
- Helped companies report reductions in compliance violations and resulting penalties, improvements in public image, stronger reputation with multinational buyers, and enhanced productivity resulting from improved workforce morale and greater resource efficiency.
- Started to avert millions of metric tons of CO<sub>2</sub> through resource efficiency and other interventions deployed by factory managers.

## EHS Academy Curriculum

| Course Title  | Key Content   |
|---|---|
| <b>FOUNDATION COURSES</b>                               |   |
| 1. EHS as Management System: Value and Overview         | Good EHS practice; EHS as integral management system; Influencing EHS management practices                                  |
| 2. Regulatory Compliance                                | Structure of EHS regulations; Applicable regulations & where to find them; How to put regulations into practice             |
| 3. Hazard Recognition & Risk Assessment                 | Occupational health hazards; Physical safety; Environmental pollution hazards; Tools to help ID and analyze risk            |
| <b>SKILL-BUILDING COURSES</b>                           |   |
| 4. Clean Production                                     | Clean production concepts & approaches, case studies, Lean/Six Sigma; Advocating using benefit assessments                  |
| 5. Job Safety Analysis (JSA)                            | Using JSA to reduce workplace risk; How to ID jobs and tasks for analysis; Steps in performing a JSA                        |
| 6. EHS Inspections & Audits                             | Function of audits; How to develop, organize, & conduct audits; How to select critical findings                             |
| 7. Incident Investigation & Root Cause Analysis         | Managing investigations; Root cause analysis; Create and use analysis tools; Leading groups in problem solving              |
| 8. Business & Energy Mgmt.                              | Business case for energy & climate action; Areas of opportunity; Best practices; Measure, track, report progress            |
| 9. Energy Efficiency & Energy Management                | Industrial energy assessment; energy mgmt & finance; Special courses in lighting, HVAC, heat recovery, fuel switching, etc. |
| 10. GHG Accounting & Mgmt.                              | Accounting: methods & standards; Reporting: monitoring & verification   |
| <b>CAPSTONE COURSES</b>                                 |   |
| 11. Mgmt. of Change (MOC) & Preventive Maintenance (PM) | Definition of change; Common sources of change; Threshold for triggering MOC review; Implementing an MOC review             |
| 12. Project Management to Solve EHS Issues              | Applying project management skills to develop EHS priorities and plans  |
| 13. Making the Case for Good EHS Practice               | How to mobilize commitment; Measure, track, & report progress; Practice in communication skills                             |

Public-Private  
Partnership



### Chinese Partners

- Lingnan (University) College, Sun Yat-sen University
- Nanjing University School of the Environment