



## Positively impacting humanitarian response through improved processes.

Health & Humanitarian Logistics encompasses a broad range of activities related to preparing, responding to, and recovery from natural and man-made disasters, as well as ongoing Humanitarian crises due to war, famine, infectious diseases, and chronic health problems. In Health and Humanitarian organizations, inefficiencies in preparation, response, or recovery can result in unintended consequences, including the loss of lives. These challenging logistics and supply chain management problems require specific knowledge and training for effective action in Health and Humanitarian operations.

### Value of the Program

#### Attendees will:

- Provide immediate impact to their organization through learnings gained from applied and real-world case studies
- Interact with others from NGOs, businesses, and/or government entities, enhancing collaboration, cooperation, and communication
- Build a critical knowledge base to apply analytical models to aid in supply chain management decisions such as forecasting, inventory management, and distribution
- Develop strategies for the management and allocation of scarce resources accounting for specific product characteristics and supply chain network structure
- Deliver best-practices for improving system outcomes of humanitarian relief efforts through coordination and collaboration among strategic partners
- Ultimately transform the humanitarian sector with increased capacity to participate in planning and strategic decision-making for effective supply chain management

“There is clearly a gap in Supply Chain Logistics as applied to complex humanitarian emergencies, and learning opportunities to do better. This kind of training could be very useful.”

The learning experience is maximized through our blended delivery format, consisting of pre and post-course online modules, mixed with face-to-face instructor led classroom time.

#### Who Should Attend

- Tactical & strategic members of non-governmental organizations
- Private corporations involved in humanitarian relief or health delivery
- US Federal government employees
- US State or local government employees
- Health or Humanitarian Foundation members and other Donors
- Foreign Government or Public Health Officials

#### Learn from Industry Experts

The executive learning program was developed by the award-winning co-directors of the Georgia Tech Health and Humanitarian Logistics Center, Pinar Keskinocak, Ph.D., Julie Swann, Ph.D., and Ozlem Ergun, Ph.D. The Georgia Tech Professors have a passion for applying their industrial engineering and operations research knowledge and expertise in ways that seek to develop advanced planning methods and systems that will have a positive global impact. They have all developed an astute awareness of the issues associated in areas such as disaster response and long-term development, public and global health logistics, and education.





### Systems Operations in Health and Humanitarian Response September 12-14, 2012 | September 11-13, 2013 | 2.75 CEUs

Despite having common goals, often the lack of cooperation and coordination between organizations active in humanitarian response results in inefficiencies. As a result, a systems view of a humanitarian effort is needed to ensure appropriate use of scarce resources to meet the goals at hand. This course will focus on conceptual and modeling skills to understand and effectively manage health delivery and humanitarian response from a systems perspective. Models will address system characteristics (e.g. demand dependencies) that drive system dynamics and policies to regulate performance. Course topics include methods for improving coordination and collaboration, addressing demand dependencies, and reliably measuring and evaluating system performance.

#### How You Will Benefit

- Identify methods for mitigating or reducing inventory variability and costs through information sharing among supply chain partners
- Identify opportunities for coordination within organizations and collaboration across organizations for increased efficiency and improved outcomes
- Describe the strategic behavior of decision makers and the impact of the market (or contract) structure on the participant's actions and the overall system dynamics
- Define evaluation metrics in alignment with the system goals and structure system operations and incentives that address and evaluate these metrics
- Discover current trends and procedures to help their organizations and team members get ahead and stay ahead of the curve

### Tactical Decision Making in Public Health and Humanitarian Response May 8 - 10, 2013 | 2.55 CEUs

Numerous tactical decisions must be made in the response to a public health or humanitarian event. Many of these decisions are concerned with the timely and efficient procurement, allocation, and distribution of resources (e.g. funds, supplies, volunteers) through a supply chain. This course will explore methodologies for tactical decision making including procurement and inventory policies, strategies for distribution and allocation of limited resources, and transportation decisions.

#### How You Will Benefit

- Optimize procurement decisions considering key factors affecting inventory policies such as lead time, variability, and product type (e.g., perishable goods)
- Compare and contrast inventory techniques for a single event versus ongoing operations
- Evaluate resource allocation tradeoffs in response to a health or humanitarian crisis and develop policies for the allocation of scarce resources in alignment with the supply chain network
- Develop resource allocation strategies in alignment with the supply chain network structure
- Optimize routing and storage of supplies on the transportation network across time and mitigate bottlenecks
- Develop strategies for allocating funds incorporating the interdependencies of decisions across time and space

### Pre-planning Strategy for Health and Humanitarian Organizations January 16-17, 2013 | 2.15 CEUs

Relief requirements for public health and humanitarian events are in general both unknown in size and type, and are affected by dynamic and hard to measure factors such as geographic location, local economy, and infrastructure, social and political conditions. Preparing for long-term development and response to emergency events often involves uncertainty in timing, scope, or scale. Pre-planning for these situations requires an understanding of various topics such as: forecasting, distribution, network design, and inventory management. This course will examine methods and models for making pre-planning decisions and explore the significant value that is obtained through informed decision-making in advance of an unpredictable event or long-term development.

#### How You Will Benefit

- Develop and apply analytical models to aid in distribution and routing decisions under uncertain conditions
- Identify and apply the appropriate forecasting technique considering characteristics such as seasonality and trends
- Discover current trends and procedures to help their organizations and team members get ahead and stay ahead of the curve
- Build a critical knowledge base to make tactical decisions around inventory, routing, and distribution
- Deliver best-practices to measure and evaluate outcomes of humanitarian relief efforts
- Ultimately transform the humanitarian sector with increased capacity to participate in planning and strategic decision-making for effective supply chain management

## Two Easy Ways to Register

**Online:** [www.pe.gatech.edu/hhl2012](http://www.pe.gatech.edu/hhl2012)

**Phone:** 404-385-3501

### Humanitarian Logistics Course Pricing

Individual Course Price	\$2,400
SCL Alumni/Organization Discount Price*	\$2,200
Certificate Price	\$2,000**

\*SCL Alumni is defined as someone who has previously taken a course offered by the GT Supply Chain & Logistics Institute.

Members of CSCMP, INFORMS, INASSTRAC, AST&L, WERC and the Atlanta Supply Chain Leadership Council receive the "Organization Discount Price" for each course.

\*\*\$6,000 total for all 3 courses. Must purchase all three courses at once to receive discount.

#### Scholarship

A limited number of scholarships will be available for participants from non-governmental organizations and/or from developing countries. For more information on scholarships, please visit: <http://hhls.scl.gatech.edu>.