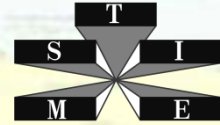


# **TIEMS Certification of Qualifications in International Emergency and Disaster Management**

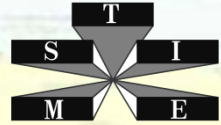
## **TIEMS QIEDM Certification Program Concept**

# Emergency and Disaster Management Education



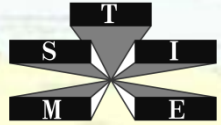
- There is no current international standard of the emergency and disaster management profession
- However, there exists a variety of different courses and academic degrees and certifications in emergency and disaster management at training institutions and universities worldwide

# TIEMS Intention with Education in Emergency and Disaster Management

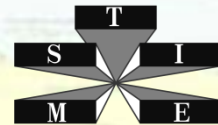


- TIEMS will contribute to an international standard of the emergency and disaster management profession by:
  1. Running Education and Training Courses in TIEMS Chapters Worldwide
  2. Establishing a Certification of Qualifications in International Emergency and Disaster Management – TIEMS QIEDM Certification
  3. Recruiting Experts to TIEMS International Pool of Teachers and Trainers
  4. Cooperating with training institution and universities worldwide

# TIEMS International Certification QIEDM and TIEMS Chapter Involvement



- TIEMS Chapters are to be the “driving force” of TIEMS QIEDM Certification with the support of TIEMS International
- Each Chapter should initiate TIEMS Education, Training and Certification Program in their region and establish agreements with universities, training institutions and certifying authorities in their region
- The education and training program should be available at universities and training institutions in the region, and if not, capacity building projects should be initiated



# TIEMS QIEDM Certification Cooperation Model

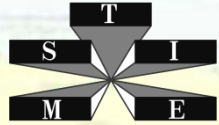
## Universities and Training Institutions worldwide

*TIEMS invites universities and training institutions worldwide, with available courses and training, meeting TIEMS QIEDM Curriculum requirements, to cooperate in establishing a worldwide available curriculum in emergency and disaster management*

## National/International Certification Authorities

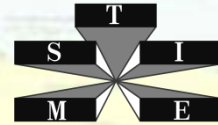
*National/international certification authorities are invited to join TIEMS in establishing an international certification in emergency and disaster management*

# TIEMS QIEDM Certification



- TIEMS QIEDM Certification is a Certification of Qualifications in International Emergency and Disaster Management
- Candidates need to have sufficient background education and practise in emergency and disaster management
- QIEDM Curriculum is to comprise both theoretical and practical courses and hands on training
- Courses will be offered by TIEMS and by cooperating Universities and Training Institutions worldwide
- Certification exam/test to be passed
- Certification to be given in cooperation with national and international Certification Authorities
- TIEMS Chapters will be responsible for adding local/national competences

# TIEMS QIEDM Certification Program Concept General Structure and Content of Curriculum



*International Organizations and their Role and Expertise  
in Emergency and Disaster Management*

*General Courses to Understand the Basics about Risk  
Assessment and Emergency and Disaster Management*

*Specific International Courses about Planning, Command  
and Control, Response and Exercise Design in Emergency  
and Disaster Management*

*National Courses Covering Best Practise Knowledge in all  
Phases of Emergency and Disaster Management;  
Preparedness, Mitigation, Response and Recovery*

*Group Work to familiarize with Local Risks making up a  
Risk Map for the Relevant Country/Province/City*

*Table Top Exercises*

*Hands on in Practical Exercises*

*Final Written Certification Examination*

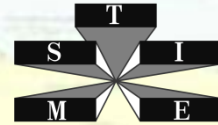
**Courses**

**Group  
Work**

**Exercises**

**Exam**

# Specification of Education and Experience background for applicants



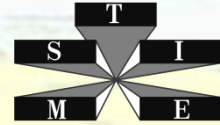
## ■ Education background requirements

All those applying for TIEMS QIEMD Certification should document a minimum of 4 years of higher education, equivalent to a college baccalaureate degree or higher

## ■ Practise background requirements

Documentation of current employment as a first responder (fire, police, EMS), or by emergency management agencies in respective countries or 3 years of prior experience in emergency management. A letter of recommendation to TIEMS QIEMD Certification Program from current employer or former emergency management employer is also required

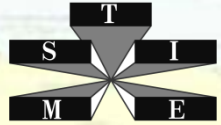
# Curriculum of Required Courses and Training



**All applicants must successfully complete the courses and course evaluation requirements**

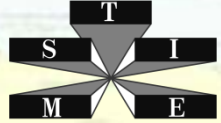
- TIEMS QIEDM **Core Courses** - *International Overview and Global Competencies in Emergency and Disaster Management*
- TIEMS approved QIEDM International **Basic Courses**, covering *Planning, Command & Control, Response and Exercise Design*. One of the courses must be scenario-based and include a demonstration of the ability to use core competencies to successfully manage the emergency situation through written and/or oral means
- Other **local courses** as designated nationally and approved by TIEMS Chapter's Advisory Board. May vary from country/region to country /region

# QIEDM – Core Courses



- ***Introduction to TIEMS QIEDM Certification Program***  
Where to find information, who to contact and what to learn about the different approaches used worldwide in emergency and disaster management
- ***Global Concepts in Emergency and Disaster Management***  
Introduction to global concepts in emergency management and knowledge that is critical in any disaster responses and to any nationality

# QIEDM – Basic Courses



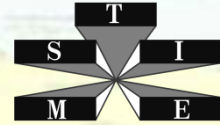
- **Planning - *Disasters and Application of Management Skills***  
Strategic Planning, Risk Analysis, and Leadership
- **Command & Control - *Critical Thinking and Decision-Making***  
Command and Control, and the Tools of Emergency Management
- **Response - *Physical and Emotional Responses to Disaster/Human Behaviour***: Community and Personal Response
- **Exercise Design - *Exercise Design, Development, Execution and Evaluation***  
Learn how to design an exercise, plan the exercise and execute and perform the exercise, including evaluation of performance



# TIEMS Local QIEDM – Courses

- Local/regional courses will be added to TIEMS QIEDM Certification by TIEMS Chapters after dialogue with National/Regional Authorities and relevant Certifying Authorities
- Local/regional courses in TIEMS QIEDM Certification may vary from region to region

# Final Examination Test



***Students Must Demonstrate the Following Competences:***

- Critical thinking
- Concepts of command and control in crisis
- Communication, both verbal and written
- Management skills and the unique nature of management during crisis
- Logistics
- Collaboration between different sectors to optimize effectiveness of response and recovery
- International interactions
- How exercises are designed and conducted and optimizing lessons and skill-sets
- Modern tools of emergency management, (from CSAR tools to GIS and satellites to IT various new technologies)

# Final Certification Approval and Recertification



- **Final TIEMS QIEDM Certification**

After review of all education and practice documentation, and passing TIEMS QIEDM Certification examination, final approval will be given by the TIEMS QIEDM Certification Board

- **Recertification**

To remain TIEMS QIEDM Certified and to use that designation, re-certification is required every three (3) years by successfully completing three QIEDM TIEMS Certification international courses

# Introduction to TIEMS QIEDM Certification Program



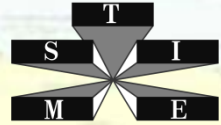
## ***PART 1***

- Definitions of relevant terms in emergency and disaster management and crisis response
- Introduction to International/Regional/National Organizations dealing with Emergency and Disaster Management

## ***PART 2***

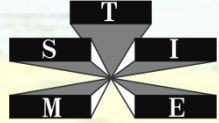
- International Cooperation
- International Training Courses
- International Conferences and Workshops
- International Research Programs and Funding

# ***Global Concepts in Emergency and Disaster Management***



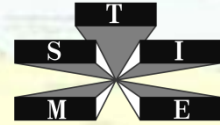
- Identification of global competencies essential for success in Emergency Management
- The Emergency Management Cycle in large-scale, multi-site, multi-entity disasters
- The Hazard Vulnerability Assessment form and function
- How to create and operationalize an Emergency Operations Plan
- Coordination of sectors, role of the Emergency Operations Center
- Use of communications to colleagues and the public during crisis
- Use of critical-thinking and decision-making in times of disaster
- Physical and emotional responses to disaster - mental health issues
- Preparedness and response for vulnerable population
- Medical surge and public health needs
- Strategies in planning for and initiating recovery from disaster
- Overview of exercise design, execution, and evaluation
- Modern tools of emergency management (from CSAR tools to GIS and satellites to IT various new technologies)

# Planning *Part 1*



- Global Realities in the Rising Number and Severity of Disasters
- Classification of Disasters – Compare and Contrast Disaster Management
  - ✓ Natural
  - ✓ Man-made
  - ✓ Technologic
- The Planning Process
- Comprehensive Emergency Management – Concept and Reality
- Hazard Analysis
  - ✓ Data development
  - ✓ Hazardous materials
  - ✓ Hazard Vulnerability Assessment (HVA)
  - ✓ Risk analysis
- Describe, Explain, and Apply the Four Phases of Disaster Management

# Planning *Part 2*

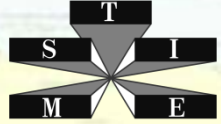


- Define and Apply the Ten Basic functions of the Emergency Manager
  1. Mobilizing Emergency Personnel and Resources
    - a) Assuring a 24/7 monitoring threats and potential disasters
    - b) Ability of key officials to mobilize key personnel and resources rapidly
  2. Ability to Warn the Public
  3. Take Suitable Protective Actions
  4. Help Agencies COORDINATE Response (use of exercises)
  5. Carry Out Damage Assessment Windshield survey (followed by use of experts)
  6. Restore Essential Public Services
  7. Keep the Public Informed (media relationships)
  8. Record Keeping of All Types
  9. Recovery Planning and Execution of Existing Plans
  10. Coordinate the Emergency Management Team



# Command and Control *Part 1*

- Natural Disasters versus Civil Security
- Environmental Consequences of Disaster
- Inter-Sectoral Cooperation
- Creation of the Emergency Operations Plan (EOP)
- Setting Up the Emergency Operations Center (EOC)
- The First Operational Period – The Planning “P”
- Complex Operations – Multi-Site, Multi-jurisdictional, Multi-Sectoral
- Resilience and Recovery
- Tools of Emergency Management
- Role of Volunteers and Local Resources



# Command and Control *Part 2*

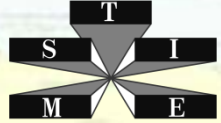
- Compare and Contrast Management and Emergency Management – Leadership During Crisis
  - ✓ Communications
  - ✓ Mapping and GIS
    - Earthquake Models
    - Plume Models
    - Other Models
- Use of Simulations and Technology
- Integration of Decision Support Systems

# Response



- Evaluation of Physical and Emotional Damage
- Health System Response to Disaster
- Vulnerable Populations
  - ✓ Children
  - ✓ Elderly
  - ✓ Handicapped
  - ✓ Mentally Compromised
- Surge Capacity and Initial Response to Large Scale Casualties
- Emergency Communications
- Improving Public Response
- Emotional Response to Disaster
- Impact of Disaster Trauma/Secondary Trauma
- Mental Health Disaster Response
- Normative and Extreme Reactions of Disaster Responder
- Psychological First aid
- Risk and Protective Mental Health Factors for Disaster Responders

# Exercise Design *Part 1*



- Discussion-Based and Operations-Based Exercises
- Capability-Based Exercise Design
- The 8 Exercise Design Steps
  - ✓ *Assess the need*
  - ✓ *Define the scope and purpose*
  - ✓ *Develop the objectives*
  - ✓ *Compose the narrative*
  - ✓ *Write the major and detailed events*
  - ✓ *List expected actions*
  - ✓ *Prepare messages*
  - ✓ *Develop the evaluation plans*

# Exercise Design *Part 2*



- Describe and compare the different types of exercises
  - ✓ *Drill*
  - ✓ *Seminar*
  - ✓ *Tabletop Exercise*
  - ✓ *Functional Exercise*
  - ✓ *Full scale exercise*
  
- Necessary Documents
- The Evaluation Process

# Exercise Design *Part 3*



- Assume Roles and Experience a Tabletop Exercise
- Create a Tabletop Exercise and Exercise Another Group of Students