

**2013 CAP-SSSE Program Guidance  
Attachment 3**

**“Advanced Floodplain Management Concepts”  
Floodplain Management Training Opportunities  
Available through the Emergency Management Institute**

FEMA’s Emergency Management Institute, in cooperation with FEMA’s Mitigation Directorate has announced the availability of thirteen training modules addressing advanced concepts in floodplain management. These modules were developed by a team including representative from FEMA Headquarters and Regional offices, NFIP State Coordinators and local officials. Development of advanced topic modules and EMI’s Train the Trainer E262 “Instructional Delivery for Subject Matter Experts” is part of a long range plan to increase the number of instructors and courses that can deliver field-based training. Each module can be field delivered and includes an instructor’s guide, student manual, visuals, interactive exercises, and job aides.

The courses currently developed are E//L/G194, Advanced Floodplain Management Concepts I (which includes Local Floodplain Manager Roles and Responsibilities, NFIP Floodplain Rules and Regulations In-Depth, LOMCs and Local Floodplain Management, and Planning for Post-Disaster Integrated Management); and E/L/G282, Advanced Floodplain Management Concepts II (which includes Flood Insurance Principles for the Local Floodplain Manager, Higher Standards and NAI Concepts, Hydrology and Watershed Processes for the Non-Engineer, and Considerations for Placement of Manufactured Homes & RVs in the Floodplain); and E/L/G284, Advanced Floodplain Management Concepts III (which includes Comparing Regulations and Insurance, Digital Flood Insurance Rate Maps (DFIRMs), Floodway Standards, Common Noncompliance Issues, Substantial Improvement & Substantial Damage) . While these courses are offered as a resident course at EMI once a year, it is also intended for field delivery by State NFIP Coordinators and state Floodplain Management Chapters and Associations. A field delivered course can be offered as an “L” course in coordination with FEMA Regional Staff or as a “G” course without FEMA Regional Staff and can be found in the EMI catalog as “G194”, G282 and “G284”.

**Advanced Floodplain Management Concepts I (E/L/G194)**

Local Floodplain Manager Roles and Responsibilities (included in G194) – This module reviews the major roles of the floodplain manager who serves as a coordinator, regulator, educator, and planner. Participants learn about the organizations and individuals that need to be coordinated with, recordkeeping practices, regulatory responsibilities, tools for handling violations, and methods for providing information on insurance implications and mitigation planning.

NFIP Rules and Regulations In-Depth (included in G194) – The scope of this module includes floodway and encroachment requirements, new residential building requirements, development in approximate A zones, accessory and agricultural buildings, anchoring fuel storage tanks, regulating recreational vehicles, environmental/historic preservation regulations, and typical compliance problems.

## **2013 CAP-SSSE Program Guidance Attachment 3**

Letters Of Map Change (included in G194) – This module explores the floodplain management implications of LOMCs for the local floodplain administrator. Activities include a review of LOMC types, proposed development scenarios, local considerations and responsibilities in signing a Community Acknowledgement Form, opportunities to promote best practices, and review of sample ordinance language to manage floodplains and provide enforcement authority at the local level.

Preparing for Post-Disaster Responsibilities (included in G194) – The scope of this module includes an introduction to pre- and post-disaster planning as well as an introduction to post-disaster operations. Participants learn how to identify partners and resources, create a post-disaster SOP, manage public information campaigns, conduct detailed substantial damage inspections, handle substantial damage declarations and posting, manage permitting, documentation, and compliance, and access potential funding sources.

### **Advanced Floodplain Management Concepts II (E/L/G282)**

NFIP Flood Insurance Principles (included in G282) – This training module discusses the basics of flood insurance backed by the National Flood Insurance Program including NFIP coverage, rating, NFIP policy information, rate and rule changes, and opportunities for flood insurance outreach.

Hydrology and Hydraulics for the Floodplain Manager (included in G282) – This training course discusses the basics of both hydrology and hydraulics and explores the fundamentals of the Flood Insurance Study and Flood Insurance Rate Map. Topics also include a discussion of the flood profile, floodways, special considerations in the mapping process, and Flood Insurance Study interpretation.

Manufactured Homes and RVs in the Floodplain (included in G282) – The scope of this module includes an in-depth discussion of the 2008 changes in HUD rules related to manufactured home installation, and inspection. The training also includes analysis of the site review process, foundation design, other installation concerns, enforcement of NFIP regulations and HUD regulations related to manufactured home installation and consideration of recreational vehicles in the floodplain.

Higher Standards in Floodplain Management (included in G282) – This module discusses the concept of higher standards and implementation of higher standards specifically related to freeboard, critical facilities, detailed BFE determinations in A Zones, subdivision requirements, prohibition of fill, and enclosure limitation.

**2013 CAP-SSSE Program Guidance  
Attachment 3**

**Advanced Floodplain Management Concepts III (E/L/G284)**

Comparing NFIP Regulations and Insurance (4 hour module) – This course identifies basic rating elements including compliance and rating elements for enclosures. The differences between Lowest Floor Elevation and Base Flood Elevation (LFE/BFE), rating differences in A Zones without BFEs, and compliance factors affecting insurance rates are discussed. Resources for outreach and updates will be identified and discussed.

Digital Flood Insurance Rate Maps (DFIRMs) (4 hour module) – This module describes how to coordinate the mapping process, gain public and political support for floodplain mapping, and demonstrates how DFIRM and backup data can be used.

Floodway Standards (6 hour module) – This module explains the floodway concept and purpose as well as the concept of higher floodway standards. The training also identifies regulatory requirements and methodologies to comply with no-rise certification requirements and concludes with describing various map change options for floodway modifications.

Common Noncompliance Issues (6 hour module) – The scope of this module includes discussion of common floodplain management compliance issues and describes administration, enforcement resources, and effective messages to achieve compliance as well as tips to avoid noncompliance.

Substantial Improvement and Substantial Damage (6 hour module) – This course explains roles and responsibilities related to SI/SD, and how to administer SI/SD in your community. Discussion also includes the importance of making SI/SD determinations and identifies resources for undertaking SI/SD determinations and available financial assistance.

FEMA staff can access materials for “L” or “G” field delivery of these modules directly from the links below.

State NFIP Coordinators can access the “G” Course Module training materials from the links below “L” courses must be coordinated with your FEMA Regional contact.

G194 modules: <http://training.fema.gov/floodplainmanager/qu5YL2b/G194.asp>

G282 modules: <http://training.fema.gov/floodplainmanager/qu5YL2b/G282.asp>

G284 modules: <http://training.fema.gov/floodplainmanager/qu5YL2b/G284.asp>

If you have any questions, please contact Robert Perry at (301) 447-1351 or via email at [Robert.Perry@fema.dhs.gov](mailto:Robert.Perry@fema.dhs.gov).