

- Part 1: CFM® Exam Preparation:** Provides an overview, recommended prerequisites and other basic information about applying for, preparing for and taking the exam.
- Part 2: Technical References:** Provides the title and links to the technical reference used to validate answers to all of the questions on the exam.
- Part 3: Exam Supplemental Review Materials:** Provides links for additional review resources.



# Part 1 CFM® Exam Preparation

## Overview

The CFM® exam measures a person’s knowledge of a community’s responsibilities under the National Flood Insurance Program and related floodplain management topics. The CFM® exam contains questions in the proportions shown for the following seven topic categories:

20-25%	Floodplain Mapping
20-25%	NFIP Regulatory Standards
15-20%	Regulatory Administrative Procedures
10-15%	Flood Insurance
10-15%	Flood Hazard Mitigation
10-15%	Natural and Beneficial Functions
5-10%	Overall context of Floodplain Management

## Recommended Prerequisites

The Certification Board of Regents recommends CFM® exam takers have either: a minimum of two years of full-time floodplain management experience; OR a higher education degree in a related field; OR complete the four-day 0273 *Managing Floodplain Development through the National Flood Insurance Program* course, which is offered by EMI (E0273), by FEMA Regions (L0273) or by ASFPM, a state NFIP coordinator or state ASFPM chapter (G0273). E/L/G0273 courses are designed to provide basic training on NFIP minimum requirements for local officials administering floodplain management programs. The 0273 course is not an exam prep class, but it does focus on the NFIP and concepts of floodplain management, maps and studies, minimum regulations, ordinance administration, and the relationship between floodplain management and flood insurance.

**NOTE:** The CFM® exam is a national exam. Questions are based on the minimum NFIP regulatory standards. Some states (and communities) may have higher regulatory standards. Keep in mind that CFM® exam questions must be answered according to the **minimum NFIP regulatory standards**.

## Preparing for the Exam

After meeting recommended prerequisites, you should review the list of materials in **Part 2: Technical References**. The answer to every question on the exam was verified using those resources.

The most frequently cited technical reference for the CFM® Exam is [FEMA Publication 480](#), “National Flood Insurance Program (NFIP) Floodplain Management Requirements, A Study Guide and Desk

*Reference for Local Officials*". This resource also contains a series of quizzes (learning checks) with answers in the appendices. FEMA 480 is available for download at [www.floods.org/index.asp?menuid=389](http://www.floods.org/index.asp?menuid=389). It can also be ordered in hardcopy or on CD from the FEMA Publication Warehouse by calling (800) 480-2520.

Supplemental review resources are listed in **Part 3: Exam Supplemental Review Resources**. Particular attention is encouraged on subjects in which FEMA 480 and the 273 courses only provide a basic overview. These subjects include, but are not limited to, topics such as flood insurance, flood hazard mitigation, natural and beneficial functions, and future conditions hydrology.

## FEMA's Emergency Management Institute Courses

All EMI online and resident courses are **FREE**. EMI also provides **free on campus lodging**. FEMA reimburses eligible local, state, territorial and tribal government attendees for allowable travel expenses. All students staying on campus must purchase a non-reimbursable meal ticket (approximately \$125 for the week). Students sponsored by governmental entities receive priority. Non-government attendees should contact EMI Admissions at (301) 447-1035 to ask about attending. Generally, you need to apply for courses at EMI at least six weeks prior to the start of class, but classes tend to fill up quickly so apply early. EMI is located in Emmitsburg, MD. You can find the EMI course schedule and application materials at <https://training.fema.gov/emi.aspx>. The courses are listed by the course number preceded by the letter "E." These courses may also be offered in your local area with the same titles and course numbers preceded by the letter "L" or "G." Hosting organizations for these field courses may charge a fee to cover the cost of facilities, snacks, instructor travel, etc.

## ASFPM Event Calendar

You can search for local EMI courses and other training offered in your state by going to the ASFPM online calendar at <http://www.floods.org/n-calendar/calendar.asp>. Click on the magnifying glass icon above the calendar, type the two-letter state abbreviation in parenthesis (for example "(WI)" for courses in Wisconsin), and this will bring up all events being held in your state.

## ASFPM State/Regional Chapters

They are a great source for training, professional networking, industry news and upcoming events in your state. ASFPM chapters also hold conferences and training throughout the year.

## State Floodplain Manager

Each state has an NFIP coordinator, also called a state floodplain manager, who is responsible for assisting communities with their requirements under the NFIP. They are your first point of contact for any questions, issues or concerns you have about the program and state floodplain laws (which may be more restrictive than the NFIP minimum standards). The state FPM also provides floodplain management training and receives copies of ASFPM's training courses. Contact your state FPM for assistance or to inquire about upcoming trainings in your area.

## Registration & Sitting for the Exam

Advanced registration and fee payment is required prior to taking the exam. On-site and same day registration is not permitted. You must provide photo ID to the proctor prior to receiving exam materials. Plan to arrive 30 minutes before the exam for check-in and instructions. Late arrivals will be held to the scheduled completion time regardless of when they began the exam. The exam is pass/fail, and exam results are held in strict confidence. Results are sent by U.S. mail to exam takers in the United States two

weeks after the exams have been received by the ASFPM executive office. Exam results for international examinees may be delivered digitally using the same timeframe.

## About the CFM® Exam

The CFM® exam is a 120 multiple-choice question, closed book exam, held in a proctored classroom environment. You have three hours to complete the exam. The exam proctor will provide all materials necessary for taking the exam and all exam materials must be returned at the end of the session. Your exam packet will include general directions for the exam. Please read through and follow these directions carefully. If you do not understand something about the directions, please ask your exam proctor. Pace is important. Please review all materials in the exam packet before beginning. This will allow you to anticipate which questions you may need more time to complete. Remember, this is a national exam based on NFIP's minimum standards. While your state or community may have higher standards, you should answer exam questions based on the NFIP minimum standards. We wish you the best on your exam preparation, exam taking and eventual acceptance into the community of professional CFMs.

## Disclaimer

Since the exam questions change often, **ASFPM does not have, endorse or provide CFM® exam preparation classes.** Rather, CBOR provides advice on recommended prerequisites in the above section and **Part 2: Technical References** and **Part 3: Exam Supplemental Review Materials** as the best way to prepare.

*ASFPM provides this guide to assist in preparing for the exam. ASFPM cannot make guarantees or warranties concerning the use of this guide. Attendees should not assume they will pass the CFM® exam by only reviewing these resources or only completing the recommended training.*



# Part 2 Technical References

The technical references listed below were used to validate answers to CFM® exam questions on the specific topic area they are listed under.

## Floodplain Mapping

<ul style="list-style-type: none"> <li>• Base Flood Concept</li> <li>• Discharges, Profiles, Floodways</li> <li>• Coastal Flooding</li> <li>• Reading/Using Maps</li> <li>• Revising FEMA Maps</li> <li>• Future Conditions</li> </ul>	<p><b>Percentage of Total Exam Questions</b></p> <p>20-25%</p> <p>(24-30 questions)</p>
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### FEMA Publication 480

- NFIP Floodplain Management Requirements: A Study Guide and Desk Reference for Local Officials.  
<http://www.floods.org/index.asp?menuid=%20389>

### MT-1

- Application Forms & Instructions (also used in the Flood Insurance Section)  
<https://www.fema.gov/mt-1-application-forms-instructions>

### MT-2

- Application Forms & Instructions  
<https://www.fema.gov/mt-2-application-forms-and-instructions>

### Procedure Memorandum 64

- Compliance with the Endangered Species Act (ESA) for Letters of Map Change (Also used in Regulatory Administrative Procedures Section)  
[https://www.fema.gov/media-library-data/1388780442489-c5e577ea3d1da878b40e20b776804736/Procedure Memorandum 64-Compliance with the Endangered Species Act \(ESA\) for Letters of Map Change \(Aug 2010\).pdf](https://www.fema.gov/media-library-data/1388780442489-c5e577ea3d1da878b40e20b776804736/Procedure_Memorandum_64-Compliance_with_the_Endangered_Species_Act_(ESA)_for_Letters_of_Map_Change_(Aug_2010).pdf)

### 44 Code of Federal Regulations (CFR)

- Part 65, Identification and Mapping of Special Hazard Areas  
<https://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part65.pdf>

### Calhoun County, TX FIRM

- Calhoun County, TX FIRM 48057C0384E, map dated 10/16/14 (also used in NFIP Regulatory Standards Section)  
<https://map1.msc.fema.gov/idms/IntraView.cgi?KEY=80572536&IFIT=1>

### City & County Denver, CO FIRM

- City & County Denver, CO FIRM 0800460184H dated 11/20/13 (also used in NFIP Regulatory Standards Section)  
<https://map1.msc.fema.gov/idms/IntraView.cgi?KEY=80691301&IFIT=1>

### City & County Denver, CO FIS

- City & County Denver, CO FIS 080046V001B, dated 11/20/13 - enter product number and click search. (Also used in NFIP Regulatory Standards Section)  
<https://msc.fema.gov/portal/advanceSearch>

## NFIP Regulatory Standards

- "Development," Requirements for a Permit
- Encroachment Rules
- V Zone Rules
- Building Protection Standards
- Substantial Improvement/Damage
- Floodproofing and Retrofitting

### **Percentage of Total Exam Questions**

20-25%  
(24-30 questions)

### FEMA Publication 480

- NFIP Floodplain Management Requirements: A Study Guide and Desk Reference for Local Officials.  
<http://www.floods.org/index.asp?menuid=%20389>

### FEMA Technical Bulletins

- TB-1 Openings in Foundation Walls and Walls of Enclosures (2008)  
<https://www.fema.gov/media-library/assets/documents/2644>
- TB-2 Flood Damage-Resistant Materials Requirements (2008)  
<https://www.fema.gov/media-library/assets/documents/2655>
- TB-9 Design and Construction Guidance for Breakaway Walls Below Elevated Coastal Buildings (2008)  
<https://www.fema.gov/media-library/assets/documents/3514>

### 44 Code of Federal Regulations (CFR)

- Part 59 General Provisions and Definitions  
<https://www.gpo.gov/fdsys/pkg/CFR-2014-title44-vol1/pdf/CFR-2014-title44-vol1-part59.pdf>
- Part 60.3 Floodplain Management Criteria for Flood-Prone Areas (also used in *Regulatory Administrative Procedures* and *Natural and Beneficial Functions* section)  
<https://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-sec60-3.pdf>
- Part 60.5 Flood plain management criteria for flood-related erosion-prone areas  
<https://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-sec60-5.pdf>
- Part 73 Implementation of Section 1316 of the National Flood Insurance Act of 1968  
<https://www.gpo.gov/fdsys/pkg/CFR-2010-title44-vol1/pdf/CFR-2010-title44-vol1-part73.pdf>

### FEMA Publication 213

- Answers to Questions about Substantially Damaged Buildings  
<https://www.fema.gov/media-library/assets/documents/2969>

## Regulatory Administrative Procedures

- Permit Process and Inspections
- Elevation Records
- NFIP Regulations
- Enforcement
- Variance Rules

### Percentage of Total Exam Questions

15-20%  
(18-24 questions)

### FEMA Publication 480

- NFIP Floodplain Management Requirements: A Study Guide and Desk Reference for Local Officials.  
<http://www.floods.org/index.asp?menuid=%20389>

### Procedure Memorandum 64

- Compliance with the Endangered Species Act (ESA) for Letters of Map Change (also used in Floodplain Mapping Section)  
[https://www.fema.gov/media-library-data/1388780442489-c5e577ea3d1da878b40e20b776804736/Procedure\\_Memorandum\\_64-Compliance\\_with\\_the\\_Endangered\\_Species\\_Act\\_\(ESA\)\\_for\\_Letters\\_of\\_Map\\_Change\\_\(Aug\\_2010\).pdf](https://www.fema.gov/media-library-data/1388780442489-c5e577ea3d1da878b40e20b776804736/Procedure_Memorandum_64-Compliance_with_the_Endangered_Species_Act_(ESA)_for_Letters_of_Map_Change_(Aug_2010).pdf)

### NFIP Elevation Certificate

- Form 086-0-33 (2016)  
<https://www.fema.gov/media-library/assets/documents/160>

### 44 Code of Federal Regulations

- Part 60.3 Floodplain Management Criteria for Flood-prone Areas (also used in NFIP Regulatory Standards and Natural and Beneficial Functions section)  
<https://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-sec60-3.pdf>
- Part 60.6 Variances and exceptions  
<https://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-sec60-6.pdf>

### FEMA Publication FIA-15

- NFIP Community Rating System Coordinator's Manual (also used in Natural and Beneficial Functions and Overall Context of Floodplain Management Section)  
<https://www.fema.gov/media-library/assets/documents/8768>

## Flood Insurance

- Coverage
- Rating
- Mandatory Purchase Requirements
- NFIP Grandfather Rules
- ICC (Increased Cost of Compliance)
- CRS (Community Rating System)
- Section 1316

### Percentage of Total Exam Questions

10-15%  
(12-18 questions)

### **FEMA Publication 480**

- NFIP Floodplain Management Requirements: A Study Guide and Desk Reference for Local Officials  
<http://www.floods.org/index.asp?menuid=%20389>

### **MT-1**

- Application Forms & Instructions (also used in Floodplain Mapping Section)  
<https://www.fema.gov/mt-1-application-forms-instructions>

### **44 Code of Federal Regulations (CFR)**

- Part 61 Insurance Coverage and Rates  
<https://www.gpo.gov/fdsys/pkg/CFR-2010-title44-vol1/pdf/CFR-2010-title44-vol1-part61.pdf>
- Part 71 Implementation of Coastal Barrier Legislation  
<https://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part71.pdf>

### **FEMA Publication F-084**

- Answers to questions about the NFIP  
<https://www.fema.gov/media-library/assets/documents/272>

### **Coastal Barrier Resources Act**

- Coastal Barrier Resources Act (CBRA) Fact Sheet (also used in Natural and Beneficial Functions Section)  
<https://www.fema.gov/media-library/assets/documents/17075>

### **NFIP Flood Insurance Manual**

- NFIP Flood Insurance Manual  
<https://www.fema.gov/media-library/assets/documents/110085>

### **FEMA Publication P-259**

- Engineering Principles and Practices of Retrofitting Flood Prone Residential Structures, Third Edition (2012) (also used in *Flood Hazard Mitigation* Section)  
<https://www.fema.gov/media-library/assets/documents/3001>

## Flood Hazard Mitigation

- Disaster Assistance Procedures
- Mitigation Planning (DMA2000)
- Funding Sources
- Erosion and Other Related Hazards

### **Percentage of Total Exam Questions**

10-15%  
(12-18 questions)

### **FEMA Publication 480**

- NFIP Floodplain Management Requirements: A Study Guide and Desk Reference for Local Officials  
<http://www.floods.org/index.asp?menuid=%20389>

### **Hazard Mitigation Assistance Guideline**

- Hazard Mitigation Assistance Guidance  
<https://www.fema.gov/media-library/assets/documents/103279>

### **44 Code of Federal Regulations (CFR)**

- Part 79  
<https://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part79.pdf>
- Part 201  
<https://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part201.pdf>
- Part 206  
<https://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part206.pdf>

### **FEMA Publication 322**

- Public Assistance Guide  
<https://www.fema.gov/media-library/assets/documents/25651>

### **FEMA Publication P-259**

- Engineering Principles and Practices of Retrofitting Flood-prone Residential Structures, Third Edition (2012) (also used in Flood Insurance Section)  
<https://www.fema.gov/media-library/assets/documents/3001>



## Natural and Beneficial Functions

- Wetlands
- Multi-Objective Management
- NAI (No Adverse Impact)
- Stream Corridor Restoration
- Water Quality (NEPA, NPDES, MS4s)
- Endangered Species Act (ESA)

### **Percentage of Total Exam Questions**

10-15%  
(12-18 questions)

### **FEMA Publication 480**

- NFIP Floodplain Management Requirements: A Study Guide and Desk Reference for Local Officials  
<http://www.floods.org/index.asp?menuid=%20389>

### **FEMA Publication 248**

- A Unified National Program for Floodplain Management (1994 or later printing)  
<https://www.fema.gov/media-library/assets/documents/18472>

### **44 Code of Federal Regulations (CFR)**

- Part 9, Floodplain Management & Protection of Wetlands  
<https://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part9.pdf>
- Part 60.3, Floodplain Management Criteria for Flood-Prone Areas (also used in NFIP Regulatory Standards and Regulatory Administrative Procedures section)  
<https://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-sec60-3.pdf>
- Part 65, Identification and Mapping of Special Hazard Areas  
<https://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-part65.pdf>

### **Coastal Barrier Resources Act**

- Fact Sheet (also used in Flood Insurance section)  
<https://www.fema.gov/media-library/assets/documents/17075>

### **FEMA Publication FIA-15**

- NFIP Community Rating System Coordinator's Manual (also used in Regulatory Administrative Procedures and Overall Context of Floodplain Management section)  
<https://www.fema.gov/media-library/assets/documents/8768>

### **Federal Water Pollution Control Act (Clean Water Act)**

- Section 404  
<https://www.epa.gov/cwa-404/clean-water-act-section-404>

## Overall Context of Floodplain Management

- Unified National Program
- Community Sanctions
- History & Background of the NFIP
- Other Federal Programs

### **Percentage of Total Exam Questions**

10-15%  
(12-18 questions)

### **FEMA Publication 480**

- NFIP Floodplain Management Requirements: A Study Guide and Desk Reference for Local Officials.  
<http://www.floods.org/index.asp?menuid=%20389>

### **44 Code of Federal Regulations (CFR)**

- Part 59, General Provisions and Definitions  
<https://www.gpo.gov/fdsys/pkg/CFR-2014-title44-vol1/pdf/CFR-2014-title44-vol1-part59.pdf>
- Part 60.1 Requirements for Floodplain Management Regulations  
<https://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-sec60-1.pdf>
- Part 60.2 Minimum compliance with floodplain management criteria  
<https://www.gpo.gov/fdsys/pkg/CFR-2011-title44-vol1/pdf/CFR-2011-title44-vol1-sec60-2.pdf>

### **FEMA Publication FIA-15**

- NFIP Community Rating System Coordinator's Manual (also used in Regulatory Administrative Procedures and Natural and Beneficial Functions section)  
<https://www.fema.gov/media-library/assets/documents/8768>

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Print/CD available from FEMA Publication Warehouse call: (800) 480-2520

Order by fax/email using FEMA Publication Order Form:

<https://www.fema.gov/media-library/assets/documents/15792>



## Part 3: Exam Supplemental Review Materials

Under each CFM® Exam Topic Area, we have provided **extra review materials** to use to supplement FEMA 480 and the 273 courses (which is the minimum preparation for the exam). These materials are organized by topic area below for easy review, or to narrow your focus on a topic where you may feel you need more preparation.

### Floodplain Mapping

#### Base Flood Concept

- Base Flood (webpage definition)  
<https://www.fema.gov/base-flood>
- Hydrology and Hydraulics for Non-engineers (Video – 10 minutes)  
<https://www.youtube.com/watch?v=IDhllqoCjNA>

#### Discharges, Profiles, Floodways

- Watersheds, Rivers and Floodplains (Video – 8 minutes)  
<https://www.youtube.com/watch?v=ButQspZX2yA>
- Flood Insurance Study (FIS) (online tutorial)  
[http://www.floodmaps.fema.gov/tutorials/ot\\_fis.swf](http://www.floodmaps.fema.gov/tutorials/ot_fis.swf)

#### Coastal Flooding

- The Coastal Flood Risk Analysis and Mapping Process (two-page summary)  
<https://www.fema.gov/media-library/assets/documents/116160>
- IS-1113: Coastal Barrier Resources Act (Independent Study Course)  
<https://training.fema.gov/is/courseoverview.aspx?code=IS-1113>

#### Reading/Using Maps

- Flood Insurance Rate Map (FIRM) (Online tutorial)  
[https://www.floodmaps.fema.gov/tutorials/ot\\_firm.swf](https://www.floodmaps.fema.gov/tutorials/ot_firm.swf)
- Flood County, USA-Flood Insurance Study (FIS), Flood Insurance Rate Map (FIRM), Digital Flood Insurance Rate Maps (DFIRMs) and Engineering Scale  
<http://www.floods.org/index.asp?menuid=389>

#### Revising FEMA Maps

- Revision to National Flood Insurance Program Maps (web page description)  
<https://www.fema.gov/revision-national-flood-insurance-program-maps>
- Letter of Map Amendment – Letter of Map Revision-F (two separate online tutorials)  
<https://www.fema.gov/letter-map-amendment-letter-map-revision-f-tutorial-series-choose-tutorial>
- IS-1106 A: FEMA Mapping Change (Independent Study Course)  
<https://training.fema.gov/is/courseoverview.aspx?code=IS-1106.a>

## Future Conditions

- Future-Conditions hydrology (webpage definition)  
<https://definitions.uslegal.com/f/future-conditions-hydrology/>
- Final Guidelines for Using Future-conditions hydrology (webpage summary)  
<https://www.fema.gov/final-guidelines-using-future-conditions-hydrology#>

## NFIP Minimum Regulatory Standards

### National Flood Insurance Program (NFIP)

- NFIP Floodplain Management Requirements: a study guide and desk reference for local officials.  
<http://www.floods.org/index.asp?menuid=389>

### 44 CFR 60.3

- 44 CFR Excerpts for Floodplain Managers Annotated Revised: 19 May 2017  
<http://www.twdb.texas.gov/flood/doc/44CFR.pdf>

### Development

- Development (webpage definition and reference to 44CFR 60.3 sections)  
<https://www.fema.gov/permit-floodplain-development>

### Encroachment Rules

- Encroachment (webpage definition and reference to 44CFR 60.3 sections)  
**NOTE:** This definition only discusses floodway. It does not include 1 foot cumulative encroachment rule in AE floodplains without floodways. The reference 44 CFR 60.3 requirements do include the 1 foot cumulative rule. This distinction is important to know for the CFM exam question(s).  
<https://www.fema.gov/encroachments>

### V Zone Rules

- Coastal High Hazard Areas (webpage definition and reference to 44CFR 60.3 sections)  
<https://www.fema.gov/coastal-high-hazard-area>

### Building Protection Standards

- FEMA Publication P-348, Protecting Building Utility Systems From Flood Damage – (apx. 170 pages)  
<https://www.fema.gov/media-library/assets/documents/3729>

### Substantial Improvement/Damage

- Substantial improvement/damage (web page definition and reference to 44CFR 60.3 sections)  
<https://www.fema.gov/floodplain-management-old/substantial-improvement>

## Flood Proofing and Retrofitting

- IS-279 A: Introduction to Retrofitting Flood-prone residential Buildings (Independent Study Course)  
<https://training.fema.gov/is/courseoverview.aspx?code=IS-279.a>
- FEMA Publication P-936, Floodproofing Non-Residential Buildings (2013) – (apx. 132 pages)  
<https://www.fema.gov/media-library/assets/documents/34270>

## Regulatory Administrative Procedures

### National Flood Insurance Program (NFIP)

- NFIP Floodplain Management Requirements: a study guide and desk reference for local officials  
<http://www.floods.org/index.asp?menuid=389>

### Permit Process and Inspections

- Reducing Flood Losses through the International Code Series – (150 page publication – see sample permit/site plan checklists in Appendix D) <https://www.fema.gov/media-library/assets/documents/96634>

### Elevation Records

- IS-1103: Elevation Certificate for Surveyors (Independent Study Course)  
<https://training.fema.gov/is/courseoverview.aspx?code=IS-1103.a>

### NFIP Regulations

- 44 CFR Excerpts for Floodplain Managers Annotated Revised: May 19, 2017  
<http://www.twdb.texas.gov/flood/doc/44CFR.pdf>

### Enforcement

- Section 1316 Denial of Flood Insurance Coverage (FEMA webpage)  
<https://www.fema.gov/section-1316>

### Variance Rules

- FEMA P-993 FPM Bulletin Variance – Variances and the National Flood Insurance Program  
<https://www.fema.gov/media-library/assets/documents/99703>

## Flood Insurance

### Coverage

- IS-1101 : Basic Agent Tutorial (Independent Study Course)  
<https://training.fema.gov/is/courseoverview.aspx?code=IS-1101.a>

- IS-1109 : Understanding Basement Coverage (Independent Study Course)  
<https://training.fema.gov/is/courseoverview.aspx?code=IS-1109>

- NFIP Summary of Coverage (6 page plain language booklet)  
<https://www.fema.gov/media-library/assets/documents/12179>

### Rating

- IS-1102: Theory of Elevation Rating (Independent Study Course)  
<https://training.fema.gov/is/courseoverview.aspx?code=IS-1102>

### Mandatory Purchase Requirements

- Mandatory purchase of flood insurance (Web page description)  
<https://www.fema.gov/faq-details/Mandatory-Purchase-of-NFIP-Coverage/>
- FDIC Regulations concerning Mandatory purchase of flood insurance  
<https://www.fdic.gov/regulations/compliance/manual/5/v-6.1.pdf>

### NFIP Grandfather Rules

- NFIP Grandfathering rules – A Fact Sheet for Insurance Agents  
<https://www.fema.gov/media-library/assets/documents/16686> - 2017-(4-page fact sheet)  
<https://www.fema.gov/media-library/assets/documents/23327> - 2012-(2-page fact sheet)

### ICC

- IS-1100 A : Increased Cost of Compliance (Independent Study Course)  
<https://training.fema.gov/is/courseoverview.aspx?code=IS-1100.a>

### CRS

- National Flood Insurance Program Community Rating System (Webpage description)  
<https://www.fema.gov/national-flood-insurance-program-community-rating-system>

### Section 1316

- Section 1316 – Definition/Description (Web page description)  
<https://www.fema.gov/section-1316>

## Flood Hazard Mitigation

### Disaster Assistance Procedures

- Overview of the disaster assistance process – (1-page flyer)  
<https://www.fema.gov/media-library/assets/documents/122899>

### Mitigation Planning

- IS-318: Mitigation Planning for Local and Tribal Communities (Independent Study Courses)  
<https://training.fema.gov/is/courseoverview.aspx?code=IS-318%20%20>

## Funding Sources

- IS-212B: Introduction to Unified Hazard Mitigation Assistance (HMA) (Independent Study Courses)  
<https://training.fema.gov/is/courseoverview.aspx?code=IS-212.b>
- FEMA HMA Grants (4 page brochure)  
<https://www.fema.gov/media-library/assets/documents/107704>

## Erosion and Other Related Hazards

- Flood Hazards of Special Concern (web page description)  
<https://www.fema.gov/flood-hazards-special-concern>

# Overall Context of Floodplain Management

## Wetlands

- Executive Order 11990 – Protection of wetlands (webpage description)  
<https://www.fema.gov/executive-order-11990-protection-wetlands-1977>

## Multi-Objective Management

- Summary of the Clean Water Act (EPA webpage overview)  
<https://www.epa.gov/laws-regulations/summary-clean-water-act>
- Section 404 Permit Program (EPA web page overview)  
<https://www.epa.gov/cwa-404/section-404-permit-program>

## NAI

- ASFPM NAI No Adverse Impact Floodplain Management (Webpage description)  
<http://www.floods.org/index.asp?menuid=%20349>

## Stream Corridor Restoration

- Stream Restoration Wiki (Wikipedia webpage description)  
[https://en.wikipedia.org/wiki/Stream\\_restoration](https://en.wikipedia.org/wiki/Stream_restoration)
- Natural Stream Restoration: Restoring Streams (video 17 minutes)  
<https://www.youtube.com/watch?v=h-0NIG508FA>

## Water Quality (NEPA, NPDES, MS4s)

- Tools for Water & Wastewater partners to use to comply with regulations (webpage with link to a 4-minute video and 47-page guide along with other resources)  
<https://www.epa.gov/waterutilityresponse/build-flood-resilience-your-water-utility>

## Endangered Species Act

- Endangered Species Act (ESA) (2-page fact sheet)  
<https://www.fema.gov/media-library/assets/documents/116871>

- IS-253A: Overview of FEMA’s Environmental and Historic Preservation Review (Independent Study)  
<https://training.fema.gov/is/courseoverview.aspx?code=IS-253.a>

## Natural and Beneficial Functions

### Unified National Program

- FEMA Publication 248 A Unified National Program for Floodplain Management – (47 pages)  
<https://www.fema.gov/media-library/assets/documents/18472>

### Community Sanctions

- Suspension (webpage)  
<https://www.fema.gov/suspension>
- Probation (webpage)  
<https://www.fema.gov/probation>

### History and Background of the NFIP

- NFIP Description – (section on history and background)  
<https://www.fema.gov/media-library/assets/documents/1150>
- Perspectives: The History and Background of the NFIP (video)  
<https://www.fema.gov/media-library/assets/videos/108044>

### Other Federal Programs

- FEMA Publication 409 Natural and Beneficial Functions of Floodplains – (only available in hard copy)