

*FEDERAL RAILROAD
ADMINISTRATION*

OFFICE OF SAFETY



*FY 2009 Technical Training
Course Catalog and Calendar*

*SAFETY IMPROVEMENT
&
DEVELOPMENT TEAM*

Foreword

The SIDT course catalog is provided as a service to our internal Office of Safety customers, including participating state inspectors and program managers. The catalog includes course descriptions for 21 different courses SIDT will deliver this year. The catalog is preceded by the FY 2009 Training Calendar as of 10/21/2008, which consists of 46 classes in the 21 courses. Calendar updates will be provided if changes occur. We also offer a correspondence course for Federal Inspector Trainees hired at the GS-05 and GS-07 grade level.

1. Technical training is based on organizational needs, and therefore considered mandatory. SIDT performs various types of analyses to assess the organizational needs, including feedback from Headquarters, the regions, and the inspectors.
2. The training is for internal Office of Safety customers. Although we may invite people from the NTSB, Transport Canada, etc., to attend on occasion, we do not provide training for external customers from other governmental or civilian organizations. We simply do not have the resources to do so.
3. Normally, we do not honor requests to attend particular courses or classes. We use a specific methodology to select Federal and State Inspectors and Specialists in a resource responsible and equitable manner. The SIDT Management Analyst manages the selection process.
4. Beginning this fiscal year, the GovTrip program will be used to arrange travel funded by SIDT for participating state inspectors and managers. State employees will not have access to the GovTrip program; their travel arrangements will be prepared by FRA HQ employees and approved by either the SIDT Program Analyst or SIDT Coordinator. Details of this process will be provided to each participating state inspector and manager sometime in November 2009.
5. SIDT does not fund training travel for Federal employees. FRA Headquarters adds funding to the regional and HQ budgets to accommodate this travel.
6. Staff Directors, Regional Administrators, Deputy Regional Administrators, and State Program Managers are invited to attend in-house classes if they wish. SIDT will not fund travel for State Program Managers who wish to attend training courses unless they also actively perform inspections. They may attend courses, but must travel at state expense.
7. When we schedule contractor training, we cannot take the groups mentioned above into account. If someone from this group wishes to attend a contractor course, they must receive prior approval from the SIDT Coordinator. We cannot use slots allotted for Inspectors and Specialists to accommodate people from this group.
8. We anticipate arranging a two-year contract for new technology locomotive training for MP&E Inspectors and Specialists (Course MP&E 210). Provided this contract is successful, about 60 employees from this discipline will attend that training this FY, and the remainder will attend a class in Course MP&E 211. We anticipate carrying this over for FY 2010, when the group that attended MP&E 210 will attend MP&E 211, and vice-versa.
9. We also anticipate arranging a follow-up training event for those previously trained to conduct Forensic Passenger Accident Investigations. Details will be provided later in this fiscal year, but the format will be discussion of lessons learned and best practices.

10. Current policy is to schedule Chief Inspectors only for courses that relate to their previous discipline of expertise, general courses, or for courses developed specifically for them.

11. GS-05 and GS-07 level inspector trainees do **not** attend formal training classes developed for journey level inspectors. We have a specific program of training for trainees at these grade levels. The program consists primarily of self-study and one-on-one tutelage with experienced inspectors. The same standard generally applies to participating state inspector trainees. GS-09 level trainees and state equivalent inspectors are scheduled for journey level classroom and on-the-job training.

FY09 SIDT Technical Training Calendar
Revised Date: 10/29/2008

Class ID	Course ID	Course Name	Arrive	Depart	City	State
0901	Track 205	Track Fundamentals - Phase Two	02/09/09	02/13/09	Nashville	TN
0902	GN 208	FRA Report Writing Principles for Federal Employees	02/23/09	02/27/09	Orlando	FL
0903	MP&E 211	MP&E Recurrency 2009	02/23/09	02/27/09	San Antonio	TX
0904	OP 217	OP Recurrency 2009	02/23/09	02/27/09	San Antonio	TX
0905	GN 202	Investigative Skills Fundamentals	03/02/09	03/06/09	Nashville	TN
0906	MP&E 211	MP&E Recurrency 2009	03/09/09	03/13/09	Redondo Beach	CA
0907	Track 210	Rail Integrity Fundamentals	03/09/09	03/13/09	Las Vegas	NV
0908	S&TC 216	S&TC Recurrency 2009	03/23/09	03/27/09	San Antonio	TX
0909	Track 210	Rail Integrity Fundamentals	03/23/09	03/27/09	Columbus	OH
0910	GN 304a	Radar Speed Measurement Instructor Training	03/30/09	04/03/09	Louisville	KY
0911	OP 217	OP Recurrency 2009	04/06/09	04/10/09	Nashville	TN
0912	Track 210	Rail Integrity Fundamentals	04/06/09	04/10/09	Redondo Beach	CA
0913	MP&E 211	MP&E Recurrency 2009	04/13/09	04/17/09	Nashville	TN
0914	S&TC 216	S&TC Recurrency 2009	04/20/09	04/24/09	Redondo Beach	CA
0915	Track 210	Rail Integrity Fundamentals	04/20/09	04/25/09	Nashville	TN
0916	HM 215	HM Recurrency 2009	04/27/09	05/01/09	Las Vegas	NV
0917	OP 217	OP Recurrency 2009	04/27/09	05/01/09	Las Vegas	NV
0918	S&TC 216	S&TC Recurrency 2009	05/04/09	05/08/09	Des Moines	IA
0919	Track 210	Rail Integrity Fundamentals	05/04/09	05/08/09	San Antonio	TX
0920	MP&E 211	MP&E New Technology Locomotive	05/11/09	05/15/09	TBD	
0921	GN 207	Accident Investigation Fundamentals	05/17/09	05/22/09	San Antonio	TX
0922	HM 215	HM Recurrency 2009	05/18/09	05/22/09	Nashville	TN
0923	OP 217	OP Recurrency 2009	05/18/09	05/22/09	Louisville	KY
0924	MP&E 201	MP&E Fundamentals - Phase One	05/31/09	06/05/09	San Antonio	TX
0925	GN 202	Investigative Skills Fundamentals	06/08/09	06/12/09	Louisville	KY
0926	GN 208	FRA Report Writing Principles for Federal Employees	06/08/09	06/12/09	San Antonio	TX
0927	HM 201	HM Fundamentals - Phase One	06/08/09	06/12/09	San Antonio	TX
0928	OP 217	OP Recurrency 2009	06/08/09	06/12/09	Redondo Beach	CA
0929	Track 210	Rail Integrity Fundamentals	06/08/09	06/12/09	Des Moines	IA
0930	HM 215	HM Recurrency 2009	06/15/09	06/19/09	Des Moines	IA
0931	MP&E 211	MP&E New Technology Locomotive	06/15/09	06/19/09	TBD	
0932	HM 208	HM Fundamentals - Phase Two	06/22/09	06/26/09	San Antonio	TX
0933	OP 217	OP Recurrency 2009	06/22/09	06/26/09	Columbus	OH
0934	S&TC 216	S&TC Recurrency 2009	06/22/09	06/26/09	Columbus	OH
0935	GN 207	Accident Investigation Fundamentals	07/12/09	07/17/09	Columbus	OH
0936	Track 201	Track Fundamentals - Phase One	07/12/09	07/17/09	Louisville	KY
0937	MP&E 211	MP&E New Technology Locomotive	07/13/09	07/17/09	TBD	
0938	S&TC 216	S&TC Recurrency 2009	07/13/09	07/17/09	Nashville	TN
0939	OP 201A	OP Fundamentals - Phase One	07/19/09	07/24/09	Des Moines	IA
0940	HM 215	HM Recurrency 2009	07/20/09	07/24/09	Columbus	OH
0941	OP 217	OP Recurrency 2009	07/27/09	07/31/09	Des Moines	IA
0942	MP&E 205	MP&E Fundamentals - Phase Two	08/03/09	08/07/09	San Antonio	TX
0943	Track 210	Rail Integrity Fundamentals	08/10/09	08/14/09	Louisville	KY
0944	HM 215	HM Recurrency 2009	08/10/09	08/14/09	San Antonio	TX
0945	MP&E 211	MP&E Recurrency 2009	08/24/09	08/28/09	Columbus	OH
0946	OP 207A	OP Fundamentals - Phase Two	08/31/09	09/04/09	Des Moines	IA
	GN 211B	Forensic Passenger Accident Investigation				

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
<i>GN 101</i>	<i>N/A</i>	<i>None</i>	<i>Contractor</i>

Course Name

The Railroad - What It Is, What It Does

Description and Objectives

Description: This is a correspondence course from The Railway Educational Bureau (REB) that will be completed by all grade level GS-5 or GS-7 FRA inspector trainees. This course explores the railroad industry from A to Z, with illustrations and diagrams helping explain the evolution of the railroad industry, changes in signal and communication technology, maintenance, and design engineering. The ever-changing face of rail passenger service is described, as is intermodal traffic. The course book also examines the administration, law, accounting, and deregulation of the railroad, making it a valuable single volume of railroad information.

The objective of this course is to provide a basic understanding of what a railroad is. The course includes the following eight modules:

1. Railroad Technology, The Route System.
2. The Track: Alignment and Structure.
3. The Locomotive.
4. The Railroad Car and the Train.
5. Signals and Communication, Railroad Operation.
6. Car Types, Terminal Operations, Classification and Blocking.
7. Shipping, Unit-Trains, Intermodal Traffic, Rail Passenger Services.
8. Railroad Organization.

Regional managers should notify Barbara Hall, SIDT Management Analyst, via e-mail when a person is employed as a GS-05 or GS-07 level inspector trainee. Ms. Hall will arrange to send the course to the appropriate region for assignment. The Railway Educational Bureau will grade the lessons and send the results to the FRA Supervisor for review.

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
<i>GN 202</i>	<i>24</i>	<i>None</i>	<i>Contractor and FRA</i>

Course Name

Investigative Skills Fundamentals

Description and Objectives

Description: This course is for those who are expected to perform an FRA investigation. The course focuses on developing interviewing, photography, and note taking skills; and includes interactive lectures and a field trip. Practical exercises are built around a grade crossing accident scenario. Each class will be monitored by a FRA training specialist to ensure field trip safety and to answer questions about FRA's witness interviewing policies.

Objectives: At the completion of the course, participants will be able to:

1. Use their FRA provided cameras to photograph an accident site.
2. Prepare notes including a photo log.
3. Conduct an interview.

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
GN 207	30	GN 202	FRA

Course Name

Accident Investigation Fundamentals

Description and Objectives

Description: This course is intended for anyone who may be assigned to perform an FRA accident investigation. There are 10 learning modules covering FRA's statutory and regulatory authority to conduct investigations, communication guidelines, fatigue and crew resource management techniques for listing and prioritizing information gathering objectives, note taking and interviewing skills reinforcement, alcohol & drug involvement, locomotive event recorders, hazardous materials involvement, and FRA accident reporting requirements.

The course consists of a series of short interactive lectures using slide presentations and participant guides, followed by practical exercises for each of the modules. A building block concept is used for the practical exercises so that the learning lessons are reinforced throughout the course. There is a 25 question pre and post test designed to evaluate participant knowledge levels at the beginning and ending of the course.

Objectives: At the completion of the course, participants will be able to:

1. Recognize their statutory and regulatory authority to investigate accidents.
2. Analyze accident reports submitted by railroads to FRA.
3. Explain circumstances where fatigue may be a causal factor.
4. Understand the Threat and Error Management Model.
5. Use recognized investigative techniques to list and prioritize objectives.
6. Identify note taking and interview requirements, policies, and techniques.
7. Recognize when locomotive event recorder data, alcohol and drug involvement, and hazardous materials involvement must be included in reports.
8. Prepare an FRA F6180.39 Factual Railroad Accident Investigation Report.

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
GN 208	22	None	Contractor and FRA

Course Name

FRA Report Writing Principles for Federal Employees

Description and Objectives

Description: This three-day course is intended for Federal Office of Safety Field Employees who are required to write and edit reports. The first day is a grammar refresher workshop delivered by a contractor with a minimum of a Master's Degree in English and adult teaching credentials. The second day includes modules on editing, general writing principles, and planning and organizing FRA reports. Students practice writing and editing sections of accident and complaint investigative reports on the third and final day.

Objectives: At the completion of the course, participants will be able to:

1. Use grammar rules more effectively.
2. Write sentences and paragraphs following the principles of clear and concise government writing.
3. Apply editing techniques to their own writing.
4. Plan and organize FRA reports.
5. Write reports that will be clear to the reader at the first reading.
6. Revise and edit reports using automated word processing program features.

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
GN 304A	22	None	Contractor and FRA

Course Name

Radar Speed Measurement Instructor Training

Description and Objectives

Description: This course is intended to teach participants to become proficient in the use of Radar and to develop their instructional skills sufficiently to present Radar training to other inspectors in their regions. The training will be provided to two Federal Inspectors or Regional Specialists from each region.

Objectives: At the completion of this course, participants will be able to:

1. Explain NHTSA Radar policy.
2. Explain FRA Radar Protocols.
3. Perform visual speed estimates.
4. Explain factors affecting Radar.
5. Describe technical aspects of Radar.
6. Use lesson plans.
7. Make classroom presentations.

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
HM 201	24	None	FRA

Course Name

Hazardous Materials Fundamentals - Phase One

Description and Objectives

Description: This course provides recently hired journey level Federal and State Hazardous Materials Inspectors, and GS-9 level HM Trainees with the knowledge, skills and abilities necessary to perform inspections at their grade level. The course is an overview of the following: Hazmat Compliance Manual, FRA Field Orientation and Training Guide, AAR Specification for Tank Cars - M1002, and 49 CFR Parts 171, 172, 173, 174, 178, 179 and 180.

This course consists of a series of short interactive lectures using a slide presentation and participant guides, followed by practical team exercises for each learning module. Practice exercises will consist of situational scenarios and group discussions. There is a multiple choice pre and post test designed to evaluate participant knowledge levels at the beginning and end of the course.

Objectives: At the completion of this course, participants will be able to:

1. Apply appropriate FRA Hazmat regulations when performing site inspections.
2. Recognize deviations from the regulations.
3. Prepare an F6180.96 inspection report based on a given scenario.
4. Identify railroad and/or shipper responsibility for achieving compliance.
5. Understand inspector discretion when considering civil penalty recommendations.
6. Recall appropriate reference source documents for guidance.
7. Calculate the filling limits/density requirements for loading tank cars.

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
HM 208	24	None	FRA

Course Name

Hazardous Materials Fundamentals - Phase Two

Description and Objectives

Description: This course provides recently hired journey level Federal and State Hazardous Materials Inspectors, and GS-9 level HM Trainees with the knowledge, skills and abilities necessary to perform inspections at their grade level. The course provides an overview of the FRA requirements for using civil penalties as a compliance tool, gathering applicable documents to support the claim, and the steps necessary to properly prepare the report.

The course consists of a series of short interactive lectures, using a slide presentation and participant guides, followed by practical exercises involving realistic scenarios for each learning module. A building block concept is used and incorporated into practical exercises of each module, so that learning lessons are reinforced throughout the course. There is a multiple choice pre and post test designed to evaluate participant knowledge levels at the beginning and ending of the course.

Objectives: At the conclusion of the training, participants will be able to:

1. List the enforcement actions available to effectively handle non-compliant hazmat issues.
2. Gather the documents needed to support the violation report.
3. Determine if individual civil penalty actions are appropriate.
4. Prepare a F6180.110 violation report.

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
HM 215	24	None	FRA

Course Name

HM Recurrency 2009

Description and Objectives

Description: This course is intended for all Federal and State hazardous materials inspectors and specialists. It defines the criteria for using the International Maritime Dangerous Goods (IMDG Code). In addition, there will be eight hours of contracted instruction on "Street Smart Chemistry" - a fundamental, common-sense approach to dealing with a variety of chemicals focused on their potential adverse reactions to the environment and their container. This course will include a module on preferred traits and characteristics of a professional inspector.

The course consists of a series of short interactive lectures using a slide presentation and participant guides, followed by practical exercises for each of the modules. A building block concept is used for the course modules and the practical exercises so that the information is presented in sequential order. There is a 25 question, multiple choice, pre and post test that is designed to evaluate participant knowledge levels at the beginning and end of the course.

Objectives: At the completion of this course, participants will be able to:

1. Apply the two volumes and supplement of the IMDG Code.
2. Understand the relationship between the U.S. Federal regulations and the IMDG Code.
3. Determine the proper shipping description and packaging requirements for international transportation.
4. Apply the IMDG Code in field inspections and investigations.
5. Identify probable cause involving adverse chemical reactions during transportation.
6. Understand the chemistry of hazardous materials.
7. Correlate the traits of a professional inspector with your own personal attributes.

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
<i>MP&E 201</i>	<i>32</i>	<i>None</i>	<i>FRA</i>

Course Name

MP&E Fundamentals - Phase One

Description and Objectives

Description: This course provides recently hired MP&E Inspectors with the knowledge, skills and abilities necessary to perform inspections at their grade level. The course includes instruction on the MP&E Compliance Manual, Code of Federal Regulations (49 CFR), and the Single Car Air Brake Test (SCT) Manual. New inspectors learn the specific methodologies related to Locomotives (229), Safety Appliances, (231) Power Brakes and Drawbar Heights (232), Freight Car Safety Standards (215), Locomotive and Car Glazing Standards (223), Blue Signals (218), Rear of Train Markers (221).

Objectives: At the completion of this course, participants will be able to:

1. Apply appropriate MP&E regulations when performing site inspections.
2. Recognize deviations from the regulations.
3. Prepare an F6180.96 inspection report based on a given scenario.
4. Understand an individual employee's compliance responsibilities.
5. Assess whether railroads use proper sequential steps when performing single car tests.

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
MP&E 205	24	None	FRA

Course Name

MP&E Fundamentals - Phase Two

Description and Objectives

Description: This course provides recently hired MP&E Inspectors with the knowledge, skills and abilities necessary to perform inspections at their grade level. There is an overview of various MP&E activities in connection with inspection reports, violation reports, special notice for repair reports, activity codes, defect/non-defect codes, and the MP&E Compliance Manual. The course consists of a series of short interactive lectures using a slide presentation, participant guides, and job aids, followed by practical team exercises for each learning module.

Objectives: At the completion of the course, participants will be able to:

1. Prepare a MP&E Violation Report (F6180.109), based on a given scenario.
2. Prepare a Special Notice for Repair Report (F6180.8), based on a given scenario.
3. Recall appropriate MP&E activity codes.
4. Use appropriate MP&E defect/non-defect codes.
5. Use the MP&E Compliance Manual.

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
MP&E 210	24	None	Contractor & FRA

Course Name

MP&E New Technology Locomotive

Description and Objectives

Description: This course is intended for all MP&E Specialists, Chiefs, Federal and State journey level inspectors who are actively engaged in freight locomotive inspections. The course is an overview of new generation locomotives, their components and how new systems function.

The course consists of a series of short interactive lectures, participant guides, job aids, and hands-on demonstrations followed by practical exercises for each learning module.

Objectives: At the completion of the course, participants will be able to:

1. Understand the locomotive computer systems and new enhancements.
2. Identify new components associated with diesel engines.
3. Recognize the two locomotive truck types and associated improvements.
4. Identify five different air brake systems on EMD Locomotives.
5. Recall FRA/AAR locomotive crashworthiness requirements.

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
<i>MP&E 211</i>	<i>24</i>	<i>None</i>	<i>FRA</i>

Course Name

MP&E Recurrency 2009

Description and Objectives

Description: This course is intended for all MP&E Specialists, Chiefs, Federal and State journey level inspectors. The course will provide participants with the in-depth knowledge, skills, and abilities necessary to (1) perform specific inspections of freight cars and locomotives, in order to determine compliance with the new Federal regulation 49 CFR, Part 232 Electronically Controlled Pneumatic Brake System, (2) successfully navigate through the new Federal regulation 49 CFR Parts 217 and 218 Railroad Operating Rules: Program of Operational Test and Inspections; Handling Equipment, Switches and Fix Derails, and (3) perform all inspections and/or observations associated with Tier I Passenger Equipment. This course will include a module on preferred traits and characteristics of a professional inspector.

The course consists of a series of interactive lectures using PowerPoint presentations, participant guides, job aids, and practical exercises covering individual modules. There is a multiple choice, pre and a post test, designed to evaluate participant knowledge levels at the beginning and end of the course.

Objectives: At the completion of the course, participants will be able to:

1. Apply FRA Passenger Equipment Safety Standards when inspecting passenger equipment.
2. Cite specific guidelines related to passenger equipment found within the MP&E Compliance manual.
3. Summarize Part 238 Class I, Class IA and Class II passenger equipment brake test requirements.
4. Discuss the new requirements of 49 CFR, Parts 217 and 218 as they pertain to the MP&E discipline.
5. Be aware of the history, purpose and scope of 49 CFR, Part 232 Electronically Controlled Pneumatic Brake System.
6. Understand 49 CFR, Part 232 Electronically Controlled Pneumatic Brake System.
7. Correlate the traits of a professional inspector with your own personal attributes.

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
OP 201A	32	None	FRA

Course Name

OP Fundamentals - Phase One

Description and Objectives

Description: This course is intended for recently hired Operating Practices Inspectors. The course introduces the participants to 49 CFR parts 217, 218, 220, 221, 228, 232, and 240. The course will include a review of the OP Compliance Manual with emphasis on the Focused Inspection approach and the Switching Operations Fatality Analysis initiative. There is a pre and post multiple choice test that is designed to evaluate each participant's knowledge levels at the beginning and end of the course. The course mixes classroom lectures with practical exercises to achieve an application level of learning of the topics covered.

Objectives: At the conclusion of this course, participants will be able to:

1. Select the appropriate methods for addressing safety issues identified during inspections.
2. Understand the philosophy of operations testing.
3. Prepare to conduct onboard train inspections and yard inspections.
4. Apply blue signal protection and utility employee provisions of Part 218 within a railroad yard.
5. Apply 49 CFR Part 220 and associated railroad operating rules.
6. Apply 49 CFR Part 221.
7. Understand the components of SOFA and Railroad Operating Rules.
8. Recognize OP involvement in securing railroad equipment.
9. Explain the requirements of the Hours of Service Law.
10. Recognize the procedures for field enforcement of Part 240.

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
OP 207A	24	None	FRA

Course Name

OP Fundamentals - Phase Two

Description and Objectives

Description: This course is intended for recently hired Operating Practices Inspectors. There are seven learning modules covering waiver petitions, enforcement actions against railroads, inspection reports, complaint investigation, individual liability and violation reports. The course consists of a series of lectures using PowerPoint presentations and participant guides, followed by practical exercises for each of the modules. The participants, using a given practical exercise, write a complaint investigation memorandum, inspection report, violation report and a regional warning letter. A building block concept is used for the practical exercises so that the learning lessons are reinforced throughout the course. There is a pre and post test designed to evaluate participant knowledge levels at the beginning and end of the course.

Objectives: At the conclusion of this course, participants will be able to:

1. List the procedures for issuance of a permanent or temporary waiver petition.
2. Prepare an inspection report (6180.96) based on a given practical exercise.
3. Use cameras and witness statements to strengthen violations and reports.
3. Perform complaint investigations in accordance with FRA policy.
4. Prepare a complaint investigation memorandum based on a given scenario.
5. Identify the six types of enforcement tools available against railroads, and the seven factors that should be analyzed in determining whether or not to recommend civil penalties.
6. Prepare violation reports.
7. Identify the types of individual liability tools available for use by FRA.
8. Write a Regional Warning Letter for Individual Liability based on a given scenario.

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
OP 217	24	None	FRA

Course Name

OP Recurrency 2009

Description and Objectives

Description: This course is intended for all FRA OP Inspectors, State OP Inspectors, OP Specialists, and Chief Inspectors with an OP background. It will provide an overview of FRA's enforcement of the Hours of Service Law (HOSL) and the consequential complaints and violations. It will also cover current events that will include electronically controlled train air brakes (ECP), Close Call Reporting and any updates on new regulations. This course will include a module on preferred traits and characteristics of a professional inspector.

The course consists of a series of short interactive lectures using a slide presentation and participant guides, all of which will include practical exercises. A building block concept is used for the practical exercises so that the learning lessons are reinforced throughout the course. There is a 15 question pre and post test designed to evaluate participant knowledge levels at the beginning and end of the course in regards to enforcement of the Hours of Service Law.

Objectives: After successfully completing the course, each participant will be able to:

1. Identify the common mistakes made when interpreting the Hours of Service Law.
2. Use a railroad's electronic HOSL reporting system.
3. Perform HOSL complaint investigations.
4. Be aware how current events will affect OP Inspectors efforts to obtain compliance through influence.
5. Correlate the traits of a professional inspector with your own personal attributes.

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
<i>S&TC 216</i>	<i>24</i>	<i>Nonw</i>	<i>FRA</i>

Course Name

S&TC Recurrency 2009

Description and Objectives

Description: This course is intended for all Federal and State S&TC inspectors, and State Highway-Rail Grade Crossing inspectors who may be assigned to perform Part 234 and 236 inspections, investigations and other duties associated with railroad and highway grade crossing signal systems. This course will include a module on preferred traits and characteristics of a professional inspector.

The course consists of a series of short interactive lectures using PowerPoint presentations and participant guides, followed by practical exercises. The participants will understand the inspection of: signal and train control systems, power-operated switches, hand-operated switches, and highway grade crossing warning devices. A building block concept is used for the practical exercises and learning lessons are reinforced throughout the course. There are multiple choice, pre and post tests designed to evaluate participant knowledge levels at the beginning and end of the course.

Objectives: At the completion of the course, participants will be able to:

1. Understand the inspection of highway grade crossing warning devices subject to Part 234.
2. Apply FRA investigative procedures as specified in the revised S&TC Technical Manual.
3. Understand the new technical bulletin regarding S&TC activity codes.
4. Understand the new technical bulletin regarding source codes.
5. Understand the new technical bulletin regarding HGCS approach warning times.
6. Understand the CFR Part 218 Subpart F application to S&TC .
7. Correlate the traits of a professional inspector with your own personal attributes.

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
<i>Track 201</i>	<i>32</i>	<i>None</i>	<i>FRA</i>

Course Name

Track Fundamentals - Phase One

Description and Objectives

Description: This course introduces recently hired Track Inspectors to 49 CFR Part 213 Subparts A-F Track Safety Standards, general railroad industry safety requirements, and personal safety requirements, when inspectors are on or about the railroads' tracks or property. The course combines classroom learning examples with practical field exercises to gain hands-on experience about the rail industry.

Objectives: At the completion of this course, participants will be able to:

1. Use personal safety equipment when conducting a track inspection.
2. Relate commonly used track terms to actual components in the track structure.
3. Interpret a typical railroad timetable and track chart/profile.
4. Use the inspection tools that are necessary to conduct a track inspection.
5. Interpret and analyze data generated by the Automated Track Inspection Program.
6. Clarify the minimum requirements for each subpart of 49 CFR Part 213.
7. Apply the Track Safety Standards and the Track Compliance Manual guidelines during inspections.

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
Track 205	24	None	FRA

Course Name

Track Fundamentals - Phase Two

Description and Objectives

Description: This course is intended for recently hired Track Inspectors. There are six learning modules covering waiver petitions, enforcement actions against railroads, complaint investigations, inspection reports, individual liability, and violation reports.

The course consists of a series of short interactive lectures using PowerPoint presentations and participant guides, followed by practical team exercises. A building block concept is used for the practical exercises so that the learning lessons are reinforced throughout the course. There is a pre and post test designed to evaluate participant knowledge levels at the beginning and ending of the course.

Objectives: At the completion of the course, participants will be able to:

1. List the procedures for issuance of a permanent or temporary waiver petition.
2. List the enforcement actions available against railroads.
3. Write a narrative complaint investigation report.
4. Complete a track inspection report.
5. Write a violation report using Form FRA F6180.111 or FRA F6180.119.
6. Determine if individual civil penalty actions are advisable for willful conduct.
7. Write a regional individual liability warning letter.

<i>Course_ID</i>	<i>Hours</i>	<i>Prerequisite</i>	<i>Source</i>
<i>Track 210</i>	<i>24</i>	<i>None</i>	<i>FRA</i>

Course Name

Rail Integrity Fundamentals

Description and Objectives

Description: This course is intended for all Federal and State Track Inspectors and Specialists. The course introduces the participants to rail flaw detection identification and the ultrasonic technology concepts that support identification of rail defects. A review of the defect table in 213.113 Defective rails, in the Track Compliance Manual, will allow the participants to analyze the current rule for inconsistencies in the remedial action table. The course consists of a series of short interactive lectures using a slide presentation and participant guide, followed by practical individual exercises addressing 49 CFR Part 213.113 Defective rails. This course will include a module on preferred traits and characteristics of a professional inspector.

Objectives: At the completion of the course, participants will be able to:

1. Accept the basic principles and theories of ultrasonics and how they are applied in the rail flaw detection process.
2. Accept information on the equipment, type of technology currently utilized, and emerging technologies and their potential capabilities.
3. Be aware of the history of the rail manufacturing process and rail flaw development.
4. Recognize how test data is used to properly determine a rail failure location within the test data.
5. Analyze the current regulatory language for inconsistencies concerning rail defect remedial actions.
6. Correlate the traits of a professional inspector with your own personal attributes.