

## Basic Steam Locomotive Maintenance

**Course Objective:** The student will gain an understanding of steam locomotive maintenance. Each subject i.e. the practical theories of combustion and firing, how locomotive boilers work, valves and valve gears, the correct setting of valves, locomotives and superheaters is written in clear and precise terms, describing its operation or function, and includes maintenance information for problems that may arise.

**Who this is for:** Anyone wanting to learn more about the principles of steam locomotives and actions to use for correcting problems involving the steam engine.

Item Code	Lesson Description
BSP.1	Practical locomotive firing
BSP.2	Combustion and firing
BSP.3	Locomotive boilers
BSP.4	Lifting injectors
BSP.5	The locomotive
BSP.6	Locomotive valves
BSP.7	The Walschaert valve gear
BSP.8	The Baker valve gear
BSP.9	The Young valve gear
BSP.10	Correct valve setting
BSP.11	Locomotive superheaters

Item Code	Required Textbook
BKBSP	<i>Basic Steam Locomotive Maintenance</i>

Item Code	Full Course Title (Includes Textbook)	Price
BSP1FC	Basic Steam Locomotive Maintenance	\$307.95

Enrolled students may take individual lessons.  
Please contact student services for individual lesson and textbook pricing.

# **Steam Maintenance and Shop Inspection**

## **OK Series Steam Generators**

**Course Objective:** The student will be able to maintain and understand the operation of the Vapor Model OK-4625 steam generator. Use the “Find It and Fix It” charts and the schematic piping diagrams which accompany it in diagnosing problems and troubleshooting.

**Who this is for:** Maintenance personnel, supervisors and others interested in the OK-4625 steam generator.

<b>Item Code</b>	<b>Lesson Description</b>
SG.1	General specifications, the water system
SG.2	The servo fuel control
SG.3	Heat exchanger, separator, return water indicator
SG.3A	Electrical system
SG.4	Fuel and air systems
SG.5	Washing, testing, draining, troubleshooting

<b>Item Code</b>	<b>Required Textbook</b>
BKSG SUP	<i>Running Repair Redbook OK-4625</i>
	<b>This book not available separately.</b>

<b>Item Code</b>	<b>Full Course Title (Includes Textbook)</b>	<b>Price</b>
SG1FC	OK Series Steam Generators	\$142.00

Enrolled students may take individual lessons.  
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## Steam Generators

**Course Objective:** Learn the different types of OK Series Steam Generators, their parts and functions. Also, how to start the engine, troubleshooting, and shut the engine down.

**Who this is for:** Anyone interested in learning about OK Series Steam Generators.

Item Code	Lesson Description
N.27	Steam generators

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Item Code	Full Course Title (Includes Textbook)	Price
N27FC	Steam Generators	\$31.00

Enrolled students may take individual lessons.

# *Steam Maintenance and Shop Inspection*

## Steam Locomotive Inspection

**Course Objective:** Use the CFR Regulations as a resource in determining the rules and regulations for determining if the steam locomotive you are inspecting or using meets all the Federal guidelines for compliance of equipment, tests required, safe operation of equipment and/or any other requirements necessary to meet the current regulations.

**Who this is for:** Anyone responsible for and/or running a steam locomotive.

Item Code	Lesson Description
SLI.1A	Steam Locomotive Inspection and Maintenance Standards, Part 230, Subparts A and B
SLI.2A	Steam Locomotive Inspection and Maintenance Standards, Part 230, Subpart C

Item Code	Lesson Description
BKSLI	<i>Part 230—Steam Locomotive Inspection (Code of Federal Regulation)</i>

Item Code	Full Course Title (Includes Textbook)	Price
SLI1AFC	Steam Locomotive Inspection	\$59.00

Enrolled students may take individual lessons.  
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