

Introduction to Railroading

Course Objective: To provide a basic understanding of “The Railroad” with an overview through such subjects as: history, locomotives, cars, peripheral equipment, passenger services, engineering, law, accounting, administration, organization and operations.

Who this is for: Anyone interested in gaining a basic understanding of “The Railroad” as an organization.

Item Code	Lesson Description
RR.1	Railroad technology, the route system
RR.2	The track: Alinement and structure
RR.3	The locomotive
RR.4	The railroad car and the train
RR.5	Signal and communication, railroad operation
RR.6	Car types, terminal operations, classification, and blocking
RR.7	Shipping, unit trains, intermodal traffic, rail-passenger service
RR.8	Railroad organization

Item Code	Required Textbook
BKRRNN	<i>The Railroad - What It Is, What It Does</i>

Item Code	Full Course Title (Includes Textbook)	Price
RR1FC	Introduction to Railroading	\$215.00

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

Basic Foundation

How to Ship by Rail

Course Objective: At the end of this course a student will be knowledgeable about how to ship and receive via rail. They will also learn how to choose a railroad, which railcar type(s) to use, avoid product damage, order railcars, get the best contract rates, the structure of inter-modal shipping, understand railroad pricing, save money with 22 “insider” tips, plus much more.

Who this is for: Anyone who is new to the industry or needs knowledge of how to secure shipping arrangements and an understanding of all the facets involved.

Item Code	Lesson Description
SP.1A	General overview of services, rates, contracts and freight cars
SP.2A	How to use the railroads (Part I): Choosing and contacting railroads, contracts, rates, routing, ordering, and loading cars (Part I)
SP.3A	How to use the railroad (Part II): Specialized areas and an industry overview, summary tips, and review

Item Code	Required Textbook
BKRSG	<i>The Railroad Shipping Guide</i>

Item Code	Full Course Title (Includes Textbook)	Price
SP1AFC	How to Ship by Rail	\$87.95

Enrolled students may take individual lessons.
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Car and Locomotive Terms

Course Objective: Help the new employee become fluent in railroad terminology.

Who this is for: New employees or others interested in learning railroad terminology

Item Code	Lesson Description
CL.1	Terminology (Part 1)
CL.2	Terminology (Part 2)

Item Code	Required Textbook
BKCLT	<i>The Railroad Dictionary of Car and Locomotive Terms</i>

Item Code	Full Course Title (Includes Textbook)	Price
CL1FC	Car and Locomotive Terms	\$57.75

Measurements

Course Objective: Be familiar with the basic type of rules, i.e. tape rules, folding rules, steel rules to micrometers, calipers, dividers, tram-mel, levels and various gages; how to read or use and their general purpose.

Who this is for: Anyone interested in learning about the various forms of measuring devices.

Item Code	Lesson Description
M.1	Rules, micrometers, gages

Item Code	Full Course Title (Includes Booklet)	Price
M1FC	Measurements	\$31.00

Basic Foundation

Mathematics

Course Objective: The student can use this as a refresher course on a review of basic math (fractions, decimals, addition, subtraction, multiplication, percents) to squares and square root-cubes-exponents as well as formulas and plane figures-mensuration.

Who this is for: Anyone desiring a review of basic math.

Item Code	Lesson Description
BA.3A	Fractions: Addition, subtraction, multiplication
BA.4A	Fractions: Cancellation, mixed numbers, division
BA.5A1	Decima: Addition, subtraction, multiplication
BA.5B1	Division of decima, decimal equivalents
BA.61	Percentage discounts
BA.7	Squares and square roots, cubes, exponents
BA.8A	Ratio and proportion
BA.9	Fomulas
BA.10A	Basic geometry

* A separate booklet is required for each lesson

Item Code	Full Course Title (Includes Textbook)	Price
BAFC	<i>Mathematics</i>	\$261.00

Enrolled students may take individual lessons.
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Basic Training for Brakemen and Switchmen

Course Objective: This is designed to serve as an introductory course for new railroad personnel with an emphasis on safety. It discusses safe practices in the yard, around trains, getting on and off equipment, brakes, and hand signals.

Who this is for: New railroad employees or supervisors, carmen, machinists and other craftsmen.

Item Code	Lesson Description
BTM.1A	Introduction, responsibilities, railroad engines and cars, end-of-train devices, hand signals, torpedoes, whistle signals, fusees, and block signals
BTM.2A	Getting on and off equipment, track switches
BTM.3A	Coupling and uncoupling equipment, air hoses, air brakes, hand brakes, brake assembly, general safety tips

Item Code	Required Textbook
BKBS	<i>Basic Training Manual for Brakemen and Switchmen</i>

Item Code	Full Course Title (Includes Textbook)	Price
BTM1AFC	Basic Training for Brakemen and Switchmen	\$79.25

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