Courses

RRT.101 History of Railroading

This course covers the history and traditions of railroading and the industry's role in North American economic development. Upon successful completion of this course, students will be able to list and explain the significance of major events in North American railroading.

Offered: Fall
Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS and Certificates where applicable.
General Education – Not Applicable

RRT.102 Railroad Tech Careers

The course includes information about technical careers in railroading, enabling students to choose suitable career paths. This course includes field trips that will demonstrate the relationships among technical work groups in day-to-day railroad operations. Upon successful completion of this course students should be able to describe basic technical job functions, requirements, and characteristics.

Offered: Spring
Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS and Certificates where applicable.
General Education – Not Applicable

RRT.120 Introduction to Railroading

This course introduces the learner to the different classes of railroad operations, the railroad environment to include terminology and railroad language, and the overall railroad workplace environment.

Offered: Fall or Spring
Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS and Certificates where applicable.
General Education – Not Applicable

RRT.135 Basic Electro Motive Diesel (EMD)

This is one in a series of courses in the Locomotive Mechanical certificate and AAS programs. This course is designed to introduce the student to the basic operation, maintenance, repair requirements, and troubleshooting for Electro Motive Diesel engines and support systems.

Offered: Fall or Spring
Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS, and Certificates where applicable.
General Education – Not Applicable

RRT.136 Basic GE Mechanical

This is one in a series of courses in the Locomotive Mechanical certificate and AAS programs. This course is designed to introduce the student to the basic operation, maintenance, repair requirements and troubleshooting for GE diesel engines and support systems.

Offered: Fall or Spring
Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS and Certificates where applicable.
General Education – Not Applicable

RRT.137 Locomotive Air Brakes

This is one in a series of courses in the Locomotive Mechanical certificate and AAS programs. It is designed to provide the student an introduction to the operation, testing, maintenance, and troubleshooting for 26L and 30 ACDW locomotive air brake systems.

Offered: Fall or Spring
Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS and Certificates where applicable.
General Education – Not Applicable

RRT.138 Locomotive FRA

This is one in a series of courses in the Locomotive Mechanical certificate and AAS programs. This course is designed to introduce the student to the Federal Railway Administration and Department of Transportation Code of Federal Regulations Title 49, Parts 209, 218, 229, 231, and 232.

Offered: Fall or Spring
Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS and Certificates where applicable.
General Education – Not Applicable

RRT.142 Locomotive Electricity

This course is designed to introduce the student to the basic electrical theory and concepts related to locomotive electrical systems.

Offered: Fall or Spring
Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate - AAS, AGS and Certificates where applicable.
General Education – Not Applicable

RRT.143 Low Horsepower Electrical

This is one in a series of courses in the Locomotive Electrical certificate and AAS programs. This course is designed to introduce the student to the operation, maintenance, and troubleshooting of EMD Low Horsepower locomotive electrical systems.

Offered: Fall or Spring
Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate - AAS, AGS, and Certificates where applicable.
General Education – Not Applicable
RRT.144 EMD Basic Electrical

2  3  3

This course is designed to introduce the student to the basic operation, maintenance, repair requirements and trouble shooting of EMD diesel engines and support systems.

Offered: Fall or Spring

Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS, and Certificates where applicable.
General Education – Not Applicable

RRT.145 GE Dash 8/9 Electrical System

2  3  3

This course is designed to introduce the student to the basic operation, maintenance, repair requirements and trouble shooting of GE Dash 8/9 locomotive systems.

Offered: Fall or Spring

Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS and Certificates where applicable.
General Education – Not Applicable

RRT.165 Rail Safety Quality & Environment

3  3

This course discusses safety, quality, personal health and environmental awareness as it relates to the railroad industry. Emphasis is placed on the basic tools and techniques for improving these conditions on the job. Discussion will include the management of a hazardous materials handling program.

Offered: Fall or Spring

Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS and Certificates where applicable.
General Education – Not Applicable

RRT.201 Railroad Operations

3  3

This course includes information about the industry, its major assets, structure, and typical operations. Upon successful completion of this course, students will be able to define the current North American railroading industry characteristics, basic operations components and processes, and industry structure and administrative processes.

Offered: Fall

Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS and Certificates where applicable.
General Education – Not Applicable

RRT.202 Railroad Safe-Qlty-Envirn

3  3

This course covers the importance of safety, quality, personal health, and environmental awareness to the railroad industry and emphasizes the basic tools and techniques for improving these conditions on the job. Upon successful completion of this course, students should be able to define and explain the needs for improved safety, quality, health, and environmental awareness; describe their basic principles; explain the elements of successful programs, and apply these elements to typical tasks on the job.

Offered: Spring

Applicable toward graduation at Sandburg where program structure permits:
Degree or Certificate: AAS, AGS and Certificates where applicable.
General Education – Not Applicable