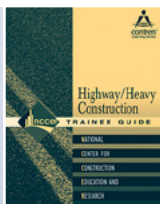


HIGHWAY / HEAVY CONSTRUCTION



Curriculum Notes

- 170 Hours (Includes 72.5 hours of Core Curriculum which is a prerequisite for completion and must be purchased separately. See p. 10 for ordering information.)
- Published: 2001
- Instructor's Guide includes access code to download TestGen software, module exams, and performance profile sheets from www.nccerirc.com.

PAPERBACK

ISBN

Trainee Guide: \$67

978-0-13-061611-1

Instructor's Guide: \$67

978-0-13-061612-8

MODULES

All of the modules listed below are included in the Trainee and Instructor Guide(s) listed above. The following ISBN and pricing information is for ordering individual modules only.

Introduction to the Trade (15 Hours)

Trainee \$19

ISBN 978-0-13-064886-0

Instructor \$19

ISBN 978-0-13-064896-9

(Module ID 36101-01) Introduces the highway/heavy construction trade. Describes trade safety and traffic control and identifies quality requirements. Describes common tools used in the trade and covers trade math and surveying basics.

Trucks (7.5 Hours)

Trainee \$19

ISBN 978-0-13-064887-7

Instructor \$19

ISBN 978-0-13-064897-6

(Module ID 36102-01) Describes trucks used in highway/heavy construction including rigid frame trucks, such as dump trucks and transit-mix trucks, and tractor trailer trucks. Discusses bulk haulers and flatbed trailers. Covers truck controls and components, preventive maintenance and operation, and required licensing.

Heavy Equipment (15 Hours)

Trainee \$19

ISBN 978-0-13-064888-4

Instructor \$19

ISBN 978-0-13-064898-3

(Module ID 36103-01) Provides descriptions and operational procedures for many types of heavy equipment, including compaction equipment, loaders, backhoe loaders, scrapers, bulldozers, excavators, motor graders, and skid steer loaders.

Cranes (7.5 Hours)

Trainee \$19

ISBN 978-0-13-064880-8

Instructor \$19

ISBN 978-0-13-064901-0

(Module ID 36104-01) Introduces cranes and forklifts used in highway/heavy construction. Discusses crane terminology, safety, and operations. Covers crane handbooks and records. Addresses forklift assemblies, controls, safety, operations, and maintenance.

Below-Grade Construction (12.5 Hours)

Trainee \$19

ISBN 978-0-13-064891-4

Instructor \$19

ISBN 978-0-13-064902-7

(Module ID 36105-01) Discusses the below-grade construction processes, including excavation support systems, excavation safety, underground piping materials and fittings, joining methods for underground pipe, box culverts, and catch basins.

Earthmoving (12.5 Hours)

Trainee \$19

ISBN 978-0-13-064892-1

Instructor \$19

ISBN 978-0-13-064903-4

(Module ID 36106-01) Describes ground preparation procedures for highway/heavy construction. Explains soil basics, including terminology, identification, classification, and methods of stabilizing soils. Addresses earthmoving operations, such as laying out slopes and grades, site excavation, and hauling.

Plant Operations (7.5 Hours)

Trainee \$19

ISBN 978-0-13-064893-8

Instructor \$19

ISBN 978-0-13-064904-1

(Module ID 36107-01) Discusses the processing and preparation of asphalt and concrete, including quarrying, crushing, screening, and testing. Explains the operation of concrete plants, hot mix asphalt plants, and pug mills.

Paving (7.5 Hours)

Trainee \$19

ISBN 978-0-13-064894-5

Instructor \$19

ISBN 978-0-13-064905-8

(Module ID 36108-01) Explains how to perform hot mix asphalt paving and concrete paving. Describes asphalt pavers and equipment required to perform paving. Discusses concrete paving equipment such as concrete pavers, slip-form pavers, and texture/curing machines.

Structures (12.5 Hours)

Trainee \$19

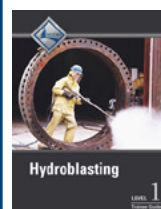
ISBN 978-0-13-064895-2

Instructor \$19

ISBN 978-0-13-064906-5

(Module ID 36109-01) Covers the equipment and supplies required to perform structural work. Discusses bridge types and materials, bridge substructures, and bridge superstructures. Addresses structural concrete and structural steel.

Hydroblasting



20 Hours

Revised: 2012, Second Edition

Module ID 43101-12

PAPERBACK

ISBN

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978-0-13-294870-8

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Includes the newest waterjet safety technologies, methods, and equipment. Also provides expanded information on shrouds, shielding, chocking, and grounding.