

BASIC RIGGER



Curriculum Notes

- 40 Hours
- Revised: 2011, Second Edition
- Instructor's Guide includes access code to download TestGen software, module exams, and performance profiles from www.nccerirc.com.
- A Spanish translation of the Rigging Fundamentals is available. Please see NCCER's online catalog for more information.

PAPERBACK

ISBN

Trainee Guide: \$49 **978-0-13-215456-7**
 Instructor's Guide: \$49 **978-0-13-215457-4**

Product Supplements

PowerPoint® Presentation Slides (in color)
 ISBN 978-0-13-257363-4 **\$40**
(includes slides for Basic, Intermediate, and Advanced on one CD)

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.

Basic Rigging (15 Hours)

(Module ID 00106-09; from Core Curriculum)

Trainee \$19 **ISBN 978-0-13-266196-6**
 Instructor \$19 **ISBN 978-0-13-266200-0**

Rigging Equipment (10 Hours)

Trainee \$19 **ISBN 978-0-13-266176-8**
 Instructor \$19 **ISBN 978-0-13-266178-2**

(Module ID 38101-11) Describes the use and inspection of basic equipment and hardware used in rigging, including slings, wire rope, chains, and attaching hardware such as shackles, eyebolts, and hooks, as well as rigging knots. Explains sling angles. Covers tuggers, jacks, hoists, and ratchet-lever hoists.

Rigging Practices (15 Hours)

Trainee \$19 **ISBN 978-0-13-266177-5**
 Instructor \$19 **ISBN 978-0-13-266179-9**

(Module ID 38102-11) Describes basic rigging and crane hazards as well as safety practices related to general rigging activities, working around power lines, and emergency response. Covers procedures for using slings and rigging pipes and valves.

INTERMEDIATE RIGGER

Curriculum Notes

- 55 Hours
- Published: 2011
- Instructor's Guide includes access code to download TestGen software, module exams, and performance profiles from www.nccerirc.com.

PAPERBACK

ISBN

Trainee Guide: \$49 **978-0-13-215458-1**
 Instructor's Guide: \$49 **978-0-13-215460-4**

Product Supplements

PowerPoint® Presentation Slides (in color)
 ISBN 978-0-13-257363-4 **\$40**
(includes slides for Basic, Intermediate, and Advanced on one CD)

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.

Intermediate Rigging (10 Hours)

Trainee \$19 **ISBN 978-0-13-266181-2**
 Instructor \$19 **ISBN 978-0-13-266185-0**

(Module ID 38201-11) Describes the basic procedures for using the various types of slings and for determining sling stress. Introduces lift plans, crane load charts, determining the center of gravity of a load, and using cranes to lift personnel. Describes sling selection and the use of jacks, hoists, and rollers to move loads.

Wire Rope (10 Hours)

Trainee \$19 **ISBN 978-0-13-266182-9**
 Instructor \$19 **ISBN 978-0-13-266186-7**

(Module ID 38202-11) Covers the components of wire rope, as well as inspection requirements and procedures for using wire rope, load blocks, and sheaves. The proper installation of wire rope, as well as maintenance guidelines and end terminations and preparation, are also explained.

Boom Assembly and Disassembly (20 Hours)

Trainee \$19 **ISBN 978-0-13-266183-6**
 Instructor \$19 **ISBN 978-0-13-266187-4**

(Module ID 38203-11) Provides step-by-step instructions for the assembly and disassembly of long and short lattice booms as well as the extension and stowing of swing-away lattice booms for telescopic booms. Covers the installation and stowing of A-frame jibs.

Basic Principles of Cranes (15 Hours)

Trainee \$19 **ISBN 978-0-13-266184-3**
 Instructor \$19 **ISBN 978-0-13-266188-1**

(Module ID 38204-11) Offers trainees an introduction to mobile crane equipment with an in-depth discussion of terminology and nomenclature. Explains the basic scientific principles associated with mobile crane operation.

ADVANCED RIGGER

Curriculum Notes

- 65 Hours
- Published: 2011
- Instructor's Guide includes access code to download TestGen software, module exams, and performance profiles from www.nccerirc.com.

PAPERBACK

ISBN

Trainee Guide: \$49 **978-0-13-215461-1**
 Instructor's Guide: \$49 **978-0-13-215462-8**

Product Supplements

PowerPoint® Presentation Slides (in color)
 ISBN 978-0-13-257363-4 **\$40**
(includes slides for Basic, Intermediate, and Advanced on one CD)

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.

Advanced Rigging (20 Hours)

Trainee \$19 **ISBN 978-0-13-266189-8**
 Instructor \$19 **ISBN 978-0-13-266192-8**

(Module ID 38301-11) Explains how the load weight and center of gravity affect a lift. Covers sling selection and spreader bar use, as well as the use of cribbing and inclined planes. Includes case studies from three complex lifts.

Lift Planning (40 Hours)

Trainee \$19 **ISBN 978-0-13-266190-4**
 Instructor \$19 **ISBN 978-0-13-266193-5**

(Module ID 38302-11) Provides an in-depth look at the development of a lift plan. Topics include reference information, load calculations, planning for multiple-crane lifts, engineering considerations, and application of load charts.

Personnel Lifts (5 Hours)

Trainee \$19 **ISBN 978-0-13-266191-1**
 Instructor \$19 **ISBN 978-0-13-266194-2**

(Module ID 38303-11) Discusses *ASME B30.23* and *29CFR 1926.550 (g)* and various recommendations governing the safe hoisting of personnel. Covers platform and crane requirements, as well as inspection and test lifting.

SIGNAL PERSON



Curriculum Notes

- 40 Hours
- Published: 2011
- Instructor's Guide includes access code to download TestGen software, module exams, and performance profiles from www.nccerirc.com.

PAPERBACK

ISBN

Trainee Guide: \$49 **978-0-13-215454-3**
 Instructor's Guide: \$49 **978-0-13-215455-0**

Product Supplements

PowerPoint® Presentation Slides (in color)
 ISBN 978-0-13-257344-3 **\$40**

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.

Communication (10 Hours)

Trainee \$19 **ISBN 978-0-13-266195-9**
 Instructor \$19 **ISBN 978-0-13-266199-7**

(Module ID 53101-11) Describes the communication process between the rigger and the crane operator. Covers electronic communication as well as ASME hand signals for mobile, tower, and overhead cranes.

Basic Principles of Cranes (15 Hours)

(Module ID 38204-11; from Intermediate Rigging)

Trainee \$19 **ISBN 978-0-13-266184-3**
 Instructor \$19 **ISBN 978-0-13-266188-1**

Crane Safety (15 Hours)

(Module ID 21104-04; from Mobile Crane Operations Level One)

Trainee \$19 **ISBN 978-0-13-266197-3**
 Instructor \$19 **ISBN 978-0-13-266201-7**