



National Craft Assessment and Certification Program S P E C I F I C A T I O N S

INDUSTRIAL BOILERMAKER - EXCHANGER V1

RBLMKE34_01

October 2014

Focus Statement

A journey level industrial boilermaker in exchangers is skilled in exchanger assembly and maintenance including welding, pipe fabrication, and stress relieving. A boilermaker is also knowledgeable in oxyfuel cutting, identifying and installing valves, pipe hangers and supports, rigging, and able to read boiler drawings and detail sheets.

Overview

- Two-hour closed-book examination
- May use a basic function, non-printing calculator
- No extra papers, books, notes or study materials are allowed
- The minimum passing score is 75
- A corresponding hands-on Performance Verification is available

NOTE: To receive a credential in Industrial Boilermaker – Exchangers candidates MUST complete and pass BOTH the Industrial Boilermaker – Maintenance assessment AND the Industrial Boilermaker – Exchangers assessment.

NCCER Curriculum

All NCCER knowledge assessments are referenced to NCCER's curriculum modules as listed on this specification sheet. You may order modules from Pearson (800.922.0579) or from NCCER's Online Catalog at www.nccer.org.

Assessment Development

All questions are developed and approved by subject matter experts under the direction of NCCER.

Credentials

Upon successful completion of the knowledge assessment, NCCER will send applicable credentials to the assessment center.

Score Report and Training Prescription

Each candidate will have access to their assessment results including their overall score and recommended training.

NCCER Registry

Knowledge assessment results are recorded in NCCER's Registry and become a part of the portable record of an individual's NCCER credentials.

Knowledge Assessment Contents:

Content Domain	Number of Questions
Exchangers (34307-11) (34411-12)	25
Total Number of Questions	25



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Learning Objectives related to Assessment:

	Towers
Registry ID Number:	Module Title and Objectives:
34307-11	Towers and Exchangers
	Describe how heaters, heat exchangers, and coolers operate.
	Explain vessel and exchanger drawings.
34411-12	Advanced Exchangers
	Identify exchangers and components.
	Explain how to pull an exchanger bundle.
	Explain the inspections and the types of testing used with exchangers.
	Explain how to replace a flange and nozzle on an exchanger.