

COURSE DESCRIPTION

Crane Nuclear offers to provide the services as described in this Technical Description subject to the pricing, terms and conditions delineated in the Commercial Description.



Valve Internal Seat Repair Training

Standard Class Size:

6 Students per Instructor

Maximum Class Size:

8 Students per Instructor

Course Duration:

5 days

Prerequisite:

Basic knowledge of valves

Supplied Materials:

An electronic training manual for each student

Suggested Training Aides:

Various gate valves for inspection and lapping, lapping equipment, and measuring equipment required for valve fit-up.

Suggested Attendees:

Mechanics, machinists, pipefitters, and mechanical foremen

Course Description:

This course is intended to provide general instruction to field personnel to enable them perform inspections and interpret required repairs using proper equipment and techniques. This will teach personnel how to determine angle changes when needed to fit-up existing wedges for proper sealing and fit-up new replacement wedges or wedges that have been welded. It will provide general instructions on how to obtain and provide the correct seat width of internal seats on gate valves with the use of lapping equipment, correct blue check techniques and other inspections to ensure the proper operation of a gate valve.

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Course Terminal Objectives:

Each student will be required to pass a written test with a minimum score of 80% in order to successfully complete this course. Upon successful completion of this training course, the student will:

- Perform inspections and interpret required repairs using proper equipment
- Correctly identify the internal parts of a gate valve
- Determine angle changes to fit-up existing wedges for proper sealing
- Fit-up new replacement wedges or wedges that have been welded
- Identify various styles of linear and rotary valves.
- Perform correct seat width on gate valves with the use of lapping equipment, blue check techniques and other inspections

Course Enabling Objectives:

After completing this course, the student will:

- Describe the valve seating area and understanding the sealing process
- Inspect the sealing areas of a gate valve
- Correctly perform a blue check and valve lapping
- Interpretation of seating profile and performing required angle changes for proper seat to wedge contact
- Fit-up of a Gate Valve new replacement or welded wedge
- Fit-up of a new Anchor Darling replacement upper and lower wedge/stem assembly

Course Benefits:

- Increase the plant's self-sufficiency in valve seat repair maintenance.
- Increase the reliability of the plant's valves.
- Reduce the plant's cost of valve maintenance.