TECHNICAL EDUCATION ACADEMY

School of Engineering

COURSE PROGRAMME

000355

MECH018 - Pressure Safety Relief Valves - Inspection, Maintenance and Repair

A safety or pressure safety relief valve can be considered the most important single safety device on a boiler, piping, pipeline or pressure vessel.



Learn from the best in their field

Course overview

Duration: 3 days / 24 hours · Intermediate level

Why take this course

A safety or pressure safety relief valve can be considered the most important single safety device on a boiler, piping, pipeline or pressure vessel. If it fails to function in the manner for which it was intended and an overpressure condition develops, the result could be catastrophic. Like all mechanical devices, pressure safety relief valve require periodic maintenance and repair. To properly carry out repairs, it is essential that the work be done by trained personnel under controlled conditions, using proper parts and procedures.

This course covers all areas of pressure safety relief valve, including inspection, repair, operation and assembly. This course provides the best understanding of what is involved in the repair of pressure safety relief valve, all areas of pressure safety relief valve, including inspection, repair, and assembly. While not hands-on training, this course provides a better understanding of what is involved in the repair of pressure safety valve.

Who it is for and how it helps

This intensive course is recommended for inspection engineers, technical management, quality control and technical supervisory personnel involved in pressure safety valve repair, inspection, operation or maintenance. No specific prerequisite training or experience required for registration.

What you will learn

- Demonstrate in-depth knowledge and understanding on the organizations affecting standards development and enforcement, jurisdictional requirements, ASME Code Sections I and VIII;
- Recognize the principles of pressure safety valve operation, development and application of pressure safety relief valves;
- Explain principles of installation and operation of pressure safety relief valve;
- Identify the operational malfunctions of pressure safety relief valve;
- Select testing facilities;
- Recognize pressure relief device certifications;
- Distinguish pressure safety valve repair, nameplate data interpretation and stamping, pressure safety relief valve disassembly;
- Carryout critical inspection, lapping and grinding;
- Determine PRV assembly and apply setting, testing and sealing;
- Implement quality control systems, nondestructive examination;
- Recognize training and qualification of personnel and pilot-operated pressure relief valves.

Curriculum

Modules 01–04

01 Introduction

- Principles of pressure safety relief valve operation
- Development and application of pressure safety relief valves
- Installation and operation of pressure safety relief valves
- Operational malfunctions of pressure safety relief valves
- Testing facilities

02 Pressure safety relief valve inspection, nameplate data interpretation, certification, repair

- Pressure safety relief device certifications
- Pressure safety relief valve repair
- Nameplate data interpretation and stamping
- Pressure safety relief valve disassembly
- Critical inspection

03 Pressure safety relief valves assembly, testing, sealing and examination

- Lapping and grinding
- Pressure safety relief valve assembly
- Setting, testing and sealing
- Quality control systems
- Nondestructive examination

04 International standards and regulations

- Pilot-operated pressure relief valves
- National board inspection code and PTC 25
- ASME Code Sections I and VIII
- The National Board and the Certificate of Authorization and VR Stamp for the repair of pressure relief valves
- Requirements of NB-514, Accreditation of VR Repair Organizations

Programme instructor



Boris Koryagin

Instructor

Борис Корягин является высококвалифицированным специалистом с более чем 30-летним опытом работы в механике и инженерии в нефтегазовой отрасли. Его карьерный путь включает широкий спектр должностей, от ведущего инженера-механика до консультанта и инструктора.

Профессиональные успехи и достижения:

Борис начал свою карьеру в 1999 году и с тех пор накопил богатый опыт в различных областях. Он занимался проектированием и анализом механического оборудования, обеспечивал техническую поддержку и обслуживание, координировал деятельность субподрядчиков и управлял проектами. В частности, он принимал участие в проектной документации для крупных нефтегазовых проектов в России, Туркменистане и Казахстане, обеспечивал соответствие международным и местным стандартам и успешно адаптировал проектную документацию.
На протяжении своей карьеры Борис занимался обучением и разработкой учебных программ. Он разработал и провел множество курсов по механическим дисциплинам, обучая студентов и специалистов основам работы с механическим оборудованием, включая статическое и вращающееся оборудование, а также дисциплины, связанные с бурением и контролем скважин. Борис также активно участвовал в управлении проектами, обеспечивая координацию деятельности субподрядчиков и взаимодействие с проектными группами. Он успешно руководил проектами по модернизации газоочистных заводов и строительству региональных нефтеперерабатывающих заводов, разрабатывал специальные технические условия для согласования российских и международных стандартов, проводил инженерные изыскания и управление интерфейсами.

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Participant ratings

Programme evaluation based on participant feedback

Overall programme rating — 5.0 / 5

Clarity of learning objectives	**4.8 / 5**
Confidence in applying knowledge and skills	**4.8 / 5**
Achievement of learning objectives	**4.8 / 5**
Relevance of content to job tasks	**4.8 / 5**
Suitability of difficulty for the level of preparation	**4.8 / 5**
Increase in knowledge	**4.8 / 5**
Skills development	**4.8 / 5**
Willingness to recommend the programme to colleagues	**4.8 / 5**

30 responses

Joining the programme

Contact the Academy and quote course code 000355 to confirm dates, delivery format, prices and enrolment terms.

Training for your team

Tell us your business goals, the roles and number of participants, and your preferred dates and location. This will help us discuss the right training option.

Preparing for the programme

The published programme does not specify any prerequisites. Contact us before enrolling to confirm how to prepare.

Discuss your training needs

mail@tecedu.org
www.tecedu.academy

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