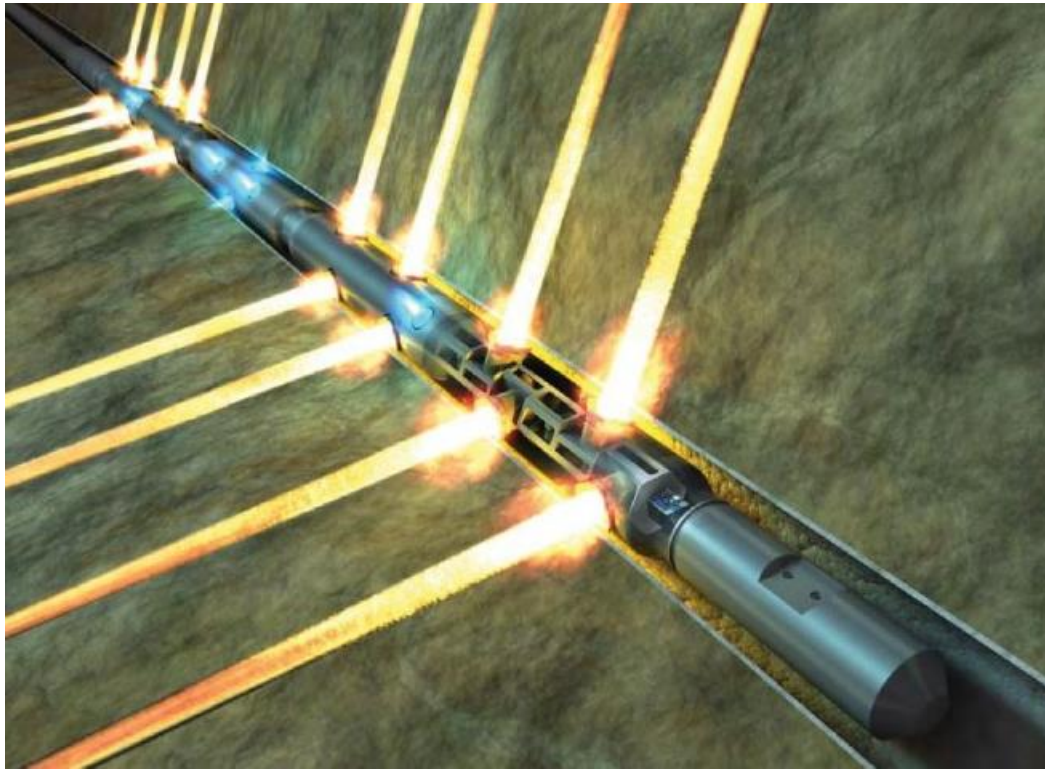




Perforation Design and Applications:

Perforating for Well Performance

Course Introduction:

Perforation design and applications are critical components in the oil and gas industry that directly influence well performance. This 5-day training course will delve into the principles of perforation, exploring various techniques and strategies used to optimize wellbore access to reservoirs. Participants will gain a comprehensive understanding of the perforation process, the impact of design choices on production, and the latest advancements in technology that enhance perforation effectiveness.

Throughout the course, attendees will engage with theoretical concepts, case studies, and industry best practices. By the end of the training, participants will be equipped with the knowledge necessary to make informed decisions regarding perforation design and its applications, ultimately contributing to improved well performance and operational efficiency.

Course Objectives:

By the end of the program, participants will be able to:

- Understand the fundamentals of perforation design and its significance in well performance.
- Analyze different perforation techniques and their applications in various geological settings.
- Evaluate the impact of perforation parameters on reservoir productivity.
- Explore the latest technologies and innovations in perforation design.
- Develop strategies for optimizing perforation processes to enhance well performance.

Who Should Attend?

This course is intended for Oil and gas engineers and geologists, Completion and production engineers, Well service and operations personnel, Reservoir engineers involved in production optimization and Technical professionals seeking to broaden their knowledge in perforation design.

Course Outline:

Day 1: Introduction to Perforation

- Overview of perforation in the oil and gas industry
- Historical context and evolution of perforation techniques
- Key terminology and concepts

Day 2: Perforation Techniques and Methods

- Types of perforation methods (e.g., gun perforation, jet perforation)
- Comparison of perforation techniques based on application
- Factors influencing the choice of perforation method

Day 3: Perforation Design Considerations

- Designing perforations for optimal well performance
- Understanding perforation parameters (e.g., shot density, hole size)
- Impact of wellbore conditions on perforation effectiveness

Day 4: Evaluation of Perforation Performance

- Analyzing the effects of perforation on reservoir flow
- Techniques for measuring perforation success
- Case studies of perforation performance evaluations

Day 5: Advancements in Perforation Technology

- Overview of emerging technologies in perforation design
- Innovations in materials and techniques
- Future trends in perforation and well performance optimization

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work

Course Fees:

To be advice as per course location. This rate includes participant's manual, Hands-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee / Tea
08:20 - 10:00	First Session
10:00 - 10:20	Coffee / Tea / Snacks
10:20 - 12:20	Second Session
12:20 - 13:30	Lunch Break & Prayer Break
13:30 - 15:00	Last Session