

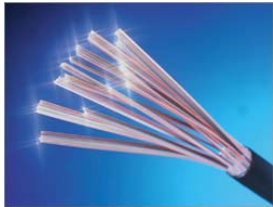
INTRODUCTION

A series of training courses – the 101 series – has been developed by OTM to highlight the transfer and development of innovative technology into the oil and gas industry. Course instructors are leading industry experts from Operator and Service Companies.

WHO SHOULD ATTEND

- Newcomers to the oil and gas industry
- Engineers, technical sales, and administrative staff
- Anyone interested in gaining an understanding of fiber optic technology and its applications

Attendees do not require any previous experience or knowledge of fiber optics



COURSE DATES AND COST

- **Cost will be \$650 (\$450 if a SEAFOM member)**
- Each course typically has 15-20 delegates which allows for good interaction with the presenters
- Course delivered by SEAFOM members, Course instructors are leading industry experts from Operator and Service Companies.
- The next course is being held in Houston, USA on Thursday, 8th November 2018.

ON COMPLETION

The course will leave delegates with:

- A good understanding of the basic principles of fiber optics
- A review of the various optical fiber sensing technologies used in the industry today
- An introduction to applications within both the onshore and offshore environments

COURSE CONTENT

INTRODUCTION TO FIBER OPTICS

This section will provide a brief introduction to the history of fiber optic technology and the basic optical physics knowledge needed:

- History and context to Fiber in O&G
- How fiber optics are made and how this affects how they are used
- Fiber Optic Sensing Technologies (Distributed sensing, Optical point sensing and Multi-plex/ Multi-parameter sensing)

FIBER OPTIC COMPONENTS FOR UPSTREAM/ DOWNSTREAM APPLICATIONS

This section will introduce the various components and techniques to understand fiber optic sensing technology:

- Connectors
- Cables/ Umbilicals
- Instrumentation
- Architecture

FIBER OPTICS IN OIL AND GAS INDUSTRY

This section will focus on applications across the oil and gas industry and historically plot its implementation:

- Downhole reservoir monitoring
- Onshore and offshore dry tree deployments
- Pipeline integrity

SUBSEA APPLICATION

This section will cover the unique facets of subsea applications via case studies from an operator:

- Downhole Sensors
- System configurations
- Installation Challenges
- Frontier Operations
- Future applications



CONTACT

If you are interested in attending the course, please contact or contact Sally Marriage at OTM Consulting Ltd. Tel: +44 (0)1372 631950 Email: sally.marriage@otmconsulting.com