



## ***DOF (IVM and IFM) Developer Training Course – 5 days***

### **Format**

This course is taught over 5 days, covering the full DOF (Digital Oil Field) construction and deployment cycle, workflow development and advanced implementation concepts aiding in oil and gas field management.

### **Intended Audience**

This training course is intended for engineers seeking to learn how to modify, maintain and extend existing DOF systems. While there will be some discussion of the end-user engineering functionality that DOF provides, the focus of this course is on the design and technology within the DOF system, rather than the use of the software tools from an engineering perspective.

This course is an extract of the Advanced 5-day DOF Developer course and will not cover deployment and connectivity related elements.

### **Prerequisites**

Knowledge of interacting with historians and databases as well as the design of graphical interfaces will aid with understanding many parts of the course. A basic understanding of data flow and IT architecture will benefit attendees. Previous knowledge of the DOF platform through use or prior courses will also be beneficial to attendees, however not compulsory as principle aspects shall be covered in detail.

### **Overall Objectives**

- Develop an initial understanding of the architecture and data structure of a DOF system
- Provide an understanding of visualization functionality and how to utilise to display data from across the platform
- Learn about standard IVM interface components and their application
- Leverage the IFM equipment data model and its integration with the IVM object library to quickly create and integrate user built workflows
- Understand and implement visual workflow development techniques within IFM and IVM
- Develop a understanding of administrative tasks to assess the impact of certain decisions when designing a DOF system
- Develop a consideration for the ongoing management, evolution and support of a live system

### **Topics Covered by Course**

- Model catalogue operations and security structure
- Extension of IFM/IVM data model relationship and development of the IVM object library
- Development, registration and configuration of IFM visual workflows
- Use of DOF cluster and best practises associated with
- Setup of automated workflow data retrieval from IFM to IVM
- Design and extend IVM graphic screens, including advanced template controls for dynamic field environments as well as extended graphic to graphic navigation concepts
- Summary review of plot controls for both embedded graphic and reference linked data review
- Addition of interactive user set points for workflow behaviour control