

## Exciting Training Opportunity for Geoscientists

# Carbonate Sediments: Application to Exploration and Development

Uzma Group in conjunction with its Technology Partner, SCA, (a world leader in Upstream Exploration and Production courses) are proud to bring this training opportunity to oil and gas companies in the S.E Asia region. Since its founding in 1988, SCA has provided leading edge technical training services around the world to over 19,000 petroleum industry professionals.

### Course Description:

**This course is intended as an introduction to the geology of limestones and dolomites as it applies to the petroleum industry.** It begins with a general introduction to the petrology of carbonate rocks with discussion of different grain types and their significance towards understanding the environment of deposition, the significance of carbonate matrix and basic classification schemes.

Diagenesis is treated in detail, with an approach based on dividing diagenetic processes according to their influence on porosity and permeability and other reservoir properties. Textural and geochemical evidence for diagenetic interpretations are discussed, as well as techniques for interpreting diagenetic history.

A major topic is the origin of dolomite. The principal models are discussed in detail. Carbonate depositional environments are described and the predictive capabilities of understanding facies belts are discussed. Reservoir geometries and the types of heterogeneities as related to the productive facies and exploration strategies are outlined. Basics of carbonate sequence stratigraphy are outlined

### Who Should Attend:

Geoscientists and engineers in both exploration and production who require a solid background in working with carbonate rocks.

### Course Content:

- Components of carbonate sediments: grains, matrix cements and pores
- Porosity types and associated heterogeneity
- Recovery efficiency
- Diagenesis - processes that reduce porosity, cementation and compaction
- Diagenesis - processes that enhance porosity dissolution
- Diagenesis - porosity, neutral processes, recrystallization and replacement
- Diagenesis - dolomitization and dolomitization models
- Depositional environments - sabkha, lagoon, back-reef, reef, shelf-edge shoals, fore-reef, slope and basin
- Basic sequence stratigraphy
- Reservoir geometries and heterogeneities
- Where is the porosity?
- Exploration targets

For further details contact [training@uzmagroup.com](mailto:training@uzmagroup.com) or register on line at: [http://scacompanies.com/training\\_services/CourseDetail.aspx?courseid=62](http://scacompanies.com/training_services/CourseDetail.aspx?courseid=62)