

**Magdy Rezk**

**Instructor**

### **Career synopsis**

Magdy is a highly experienced and well-rounded petroleum engineer with 29 years of expertise in the energy industry. He has had the privilege of working in 15 countries throughout his career, which has enriched his understanding of global energy operations and diverse cultural contexts.

Magdy's extensive experience spans various aspects of the upstream oil and gas sector, including well testing, well completions, well intervention, and production engineering. His comprehensive knowledge allows him to tackle complex challenges and provide innovative solutions.

Beyond his technical skills, Magdy has a deep commitment to nurturing young professionals in the industry. He finds great satisfaction in sharing his knowledge and expertise, preparing them for successful careers in the oil and gas sector. As a professor, he has played a pivotal role in designing curricula and establishing training programs for E&P master students, ensuring they are well-equipped to excel in their future roles.

Moreover, Magdy's passion for emerging technologies sets him apart. He constantly seeks to leverage new advancements to drive operational efficiency and enhance industry practices. His forward-thinking mindset and dedication to staying abreast of industry trends make him an invaluable asset.

With a strong track record of working in prestigious companies such as Schlumberger, Shell, Repsol, and currently as the CWI Technical Authority at CEPESA, Magdy brings a wealth of expertise, a global perspective, and a sincere commitment to making a positive impact in the oil and gas industry.

### **Professional experience**

#### **September 2021-Until now - Technical Authority - CWI - Cepsa, Spain**

- Develop competency program and training plan for well engineers
- Curriculum development
- Personnel training
- Knowledge test / assessment

#### **January 2023-Until now - Professor E&P Master - The School of Mines and Energy ETSIME-UPM, Spain**

- Professor of Well Testing Course for E&P master programme in the School of Mines and Energy ETSIME-UPM
  - Establish training program, design the curriculum as well as teach Well Testing course to more than 30 E&P master students.
- Curriculum development
- Personnel training
- Knowledge test / assessment

#### **November 2020-August 2021 - Energy Consultant - Ministry of Petroleum Egypt, Egypt**

- Present high-level strategy to establish the biggest green hydrogen project in Egypt
- Provide consultancy for Masdar and Hassan Allam projects to enhance the green hydrogen production
- Plan of power supply the 100-MW polymer electrolyte membrane electrolyser for mega project which is to produce up to 90,000 tonnes of green ammonia a year.

#### **March 2013-October 2020 - Professor E&P Master - Repsol Master CSFR programme, Spain**

- Professor of Well Completions, Well Testing and Well Intervention for E&P Master
- Established Repsol master training program, designing the curriculum as well as creating and teaching Well Completion, Well Testing and Well Intervention course to more than 150 E&P master students.
- Curriculum development
- Personnel training
- Knowledge test / assessment

#### **March 2013-October 2020 - Senior Project Manager - D&C - Repsol, Kurdistan, Spain, Russia, Angola, Brazil, Malaysia, Bolivia & Indonesia**

- Launch central data warehouse solution to monitor all key performance of global operations and assets in real-time, providing enhanced capabilities for maintenance, data analytics and contractor performance assessment.
- Establish IoT solutions for the remote fields (using electronic and digital tools to control production processes)
- Initiate and direct business strategy of six oil and gas joint-venture projects worth €500 million in different assets cycles
- Manage 140 Well Testing, ESP, Well Intervention, Completion, and Drilling projects in twenty countries, five continents. Ten of those jobs I supervised in the field such as Spain, Russia, Angola, Brazil, Malaysia, Bolivia & Indonesia
- Ran twenty smart completions in USA Eagle Ford and Marcellus Fields. These operations included Frac and sand control technologies
- Initiate North Sea subsea well integrity and P&A campaign as I manage technical participation to maximise cross learning and understanding of inherent risks we are
- Curriculum development

#### **June 2005-February 2013 - Team Leader - Well Engineering - Shell, Oman, Iraq, Libya, USA & The Netherlands**

- HSE 2013 Award
- Establish highly effective communication channels with stakeholders and governmental authorities.
- Immensely improving the safety culture by facilitating workshops to analyse the performance and identify root cause.
- Create Well Integrity Management System (e-WIMS) for Majnoon oil field in, providing automated processes that maintain assets in the most optimized, cost-effective way, which increased production from 60,000 to 200,000 barrels per day in 2 years.
- Apply robotics technologies to reduce the human presence in the field locations
- Acquire HEAT- Hazardous Environment Awareness Training certificate
- Collaborate with R&D team to incorporate newly developed designs of exploration wells in extreme high-pressure, high-temperature (HPHT) environments 20K psi and 465 degrees Fahrenheit.
- Energy Institute UK 2008 Award
- Develop and deploy new zonal isolation technique of EZIP (expandable zonal inflow profiler) that reduced water percentage by 50%
- Personnel training

### **March 2004-May 2005 - Business Development Manager - Al-Ahlia, Qatar, Egypt, Sudan & UAE**

- • Increase Market Share in onshore environment through the award of key contracts, enhance service quality through the implementation of local practices and procedures and development of the maintenance team.
- Personnel training

### **January 1994-February 2004 - Field Engineer - WCP - Schlumberger, Libya, Algeria, Saudi Arabia, France & Tunis**

- • Develop instruction skills, trained, and coached young engineers and technicians.
- Coordinate with global stakeholders in launching the first multiphase flow meter along with the Well Testing Fleet generating over \$100 million revenue in 3 years within the early production facility Libyan operator market.
- Supervised complex onshore & offshore Well Testing operations and applied state-of-the-art technology suited for unconventional reservoir environments (35% H<sub>2</sub>S and/or 25% CO<sub>2</sub>).
- Curriculum development
- Personnel training
- Knowledge test / assessment

### **Education and qualifications**

| <b>Type</b>           | <b>Name</b>  |
|-----------------------|--|
| 2019 - 2020, Master   | Rome Buisness School, MBA  |
| 1987 - 1993, Bachelor | Faculty of Petroleum and Mining Eng, BSC Petroleum Engineering         |
| 2010 - 2011, Higher   | Shell Corporate Programme, Round 2- MSC Completion & Well Intervention |

**Language: English, Arabic, Spanish**