



2021 Gas Lift Workshop: Course

June 7-8, 2021 Data Analytics For Gas Lift



Vitrual Class – June 7-8th 8AM-4PM

Data Analytics For Gas Lift and Facility Engineers

Instructor: Dr. Rajan Chokshi

Virtual Class using Zoom

Course Objective and Outcome:

Data analysis means the process of cleaning, inspecting, transforming and modeling data with the goal of discovering new, useful information and supporting decision-making. In this hands-on course, the participants will learn some of the techniques and workflows applied to gas lift and production while reviewing code and practicing. The focus will be on the development of data-driven models while keeping our feet closer to the fundamental principles of gas lift.

This two-day course discusses use cases corresponding to production engineering and specifically gas-lifted wells and related facilities. The course is primarily intended for production and facilities engineers to enhance their knowledge base and technology awareness, while learning different data analysis techniques that can be applied to large data sets. After completing the course, participants will have a set of tools and some pathways to analyze and manipulate their own data in the cloud, find trends and develop data-driven models.

Teaching Approach:

Two (or time-permitting, three) problems will be presented during this virtual class using Zoom. For each, the instructor will demonstrate the solution of such a problem using a data analysis technique with Python code deployed in the Google cloud. Trainees will have the opportunity to solve a problem and tweak solution variables using a provided data set.

Material:

Power point slides, data sets, and Python code (Jupyter/CoLab Notebook) for practical problems. **For hands on exercises, we will use the Colab environment available for free through the Google cloud. Trainees will need to bring a computer with a Google Chrome browser and a Google email account (available for free).**

Knowledge of Python is not a must but preferred to get full benefit.

Course Outline

Available for download at ARLDC.com

Costs

Workshop costs:	<u>Professionals</u>	<u>Students</u>
Registration	\$300, \$350 ⁽¹⁾	\$50
Continuing Education	\$200, \$250 ⁽¹⁾	\$30

(1) After 05/22//2021

For more information or to nominate papers, exhibits, etc., contact:

Steven Freeman, ALRDC, Steven.Freeman@shell.com

Ronda Brewer, ALRDC, ronda.brewer@ttu.edu

Or go to www.alrdc.com and navigate to the 2021 Gas Lift Workshop