# Microsoft Cloud Workshop: Predictive Maintenance for remote field devices

**Course outline**

**Module 1: Whiteboard Design Session - Predictive Maintenance for remote field devices**

**Lessons**

- Review the customer case study

- Design a proof of concept solution

- Present the solution

**Module 2: Hands-on Lab - Predictive Maintenance for remote field devices**

**Lessons**

- Configuring IoT Central with devices and metadata

- Run the Rod Pump Simulator

- Creating a device set

- Creating a useful dashboard

- Create an Event Hub and continuously export data from IoT Central

- Use Azure Databricks and Azure Machine Learning service to train and deploy predictive model

- Create an Azure Function to predict pump failure