

Assessment 3 Take-Home Project

This assignment is due Tuesday, April 20, at which time we'll also have an in-class assessment. This take-home assignment will be worth 20% of Assessment 3.

You may consult with other classmates on this assignment, but you must complete analysis on your own data. You can also use me as a resource. You will be given a data set that is unique to you, so do not try to turn in someone else's assignment.

Using Homework 21 as a foundation, create a macro that will allow you to compare different operational hours. A good way to get started is to adjust your spreadsheet so that you can put in an operating hours factor, and use the adjusted operating hours to calculate spares. See the example below.

Annual Operating Hours	1000
Operating Hours Factor	90%
Adjusted Operating Hours	900

First, adjust your Homework 21 response to represent this new operating hours factor. Save this new file as **Assessment 3.xlsm**. (5 pts)

Second, create a new tab called **Operating Hours Comparison** where you determine the spares cost when operating hours range from 50%, 60%, 70%, 80%, 90%, 100%, 110%, 120%, 130%, 140%, and 150% of the initial operating hours value. Create an appropriate table and graph, similar to that created in Homework 21. (5 pts)

Third, create a macro called `Operating_Hours_Comparison` that automatically runs on whatever data set is in the **Main** tab and completes the operating hours comparison from 50% to 150%. (5 pts)

Finally, run your macro on all five data sets you are given (note that the annual operating hours may be different in each data set). Create a PowerPoint presentation with an appropriate title slide, and five additional slides, showing the graph from each data set. (5 pts)

Submit the PowerPoint presentation as well as the Excel workbook with your original data, the new tab and chart you created, the macro, and any additional calculations you may have made through Blackboard.

Due Tuesday, April 20th at the beginning of class.