

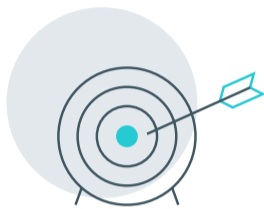
You would use this approach to enable you to understand if you have sufficient capacity to take on unexpected orders or growth in demand.

Projected performance gains

- Implement a simple tool to better understand if capacity is available at critical resources to take on additional business.

What investment is needed to understand the concept?

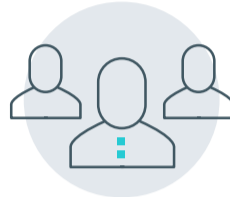
DIFFICULTY



Medium

Requires some reading around the subject and understanding of Microsoft Excel

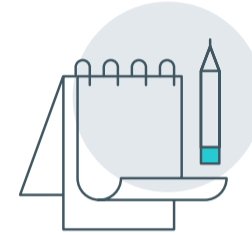
ACTIVITY



Individual and Team

The task can be completed by an individual, by may require a collective agreement to take new business

EQUIPMENT



Computer

With Microsoft Excel software

Explanation of the concept

Most factories have critical resources in terms of machines or people and skills. RCCP is a way of looking at a new order(s) and quickly identifying if it can be accepted. The assumption is made that if the critical resource has enough capacity, then the other resources should be OK and the order(s) can be accepted. RCCP also assumes that raw materials are not an issue.

RCCP usually takes the form of a simple Excel spreadsheet that calculates the available and required capacity at your critical resources. In order to do this, you will need the following data:

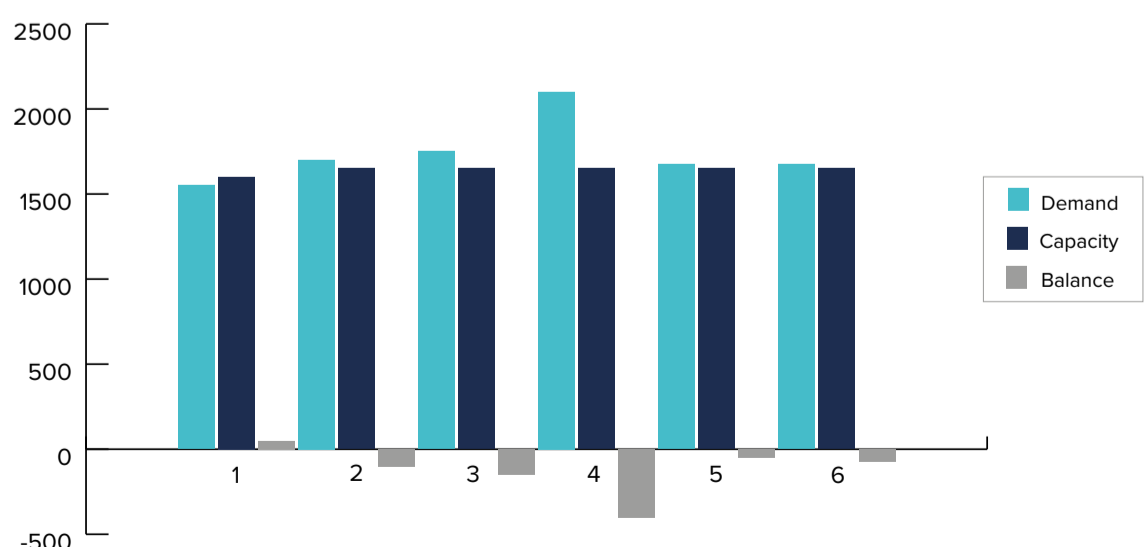
- Shifts/time worked at the critical resource
- Standard time (cycle time) for the product
- Change-over/set-up times
- Planned downtime
- Typical historical unplanned downtime
- Existing committed orders on the resource

RCCP then uses the data and makes a calculation along the lines of:

- Time worked at critical resource – (everything else listed above)

If the answer is positive, and there is still some surplus capacity, it is probably safe to accept the order.

It is important to remember that people and machine capacity are not the same. People can be the critical resource, just as machines can be. In fact machines are present 24/7, we decide when they can be run with the shift system we put in place.



What action should I take?



1

Identify your critical resources



2

Collect the process data previously listed



3

Build a simple Excel spreadsheet that allows you to calculate your “go/no go” to unexpected order(s)

Recommended Resources



GC Business Growth Hub Factsheet 1: Bottleneck Analysis

<https://www.businessgrowthhub.com/manufacturing/resources/factsheets>

Glossary

Critical Resource – most often called a constraint or bottleneck process

For more advice, case studies and additional factsheets visit:

www.businessgrowthhub.com/manufacturing