



# Getting to Know Minitab

ASQ 0701 clinic  
August 2015

# [ Agenda ]

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- What this clinic is...
- What this clinic is not...
- Why use Minitab
- Introduction to Minitab (v16)
  - Screen Navigation
  - Data Entry
  - Tools navigation

# [ What this clinic is... ]

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- ...a collection of experiences over 15 years of using Minitab.
  - Used during six-sigma certification training and project application

# [ What this Clinic is not... ]

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- ...not a complete and detailed explanation of Minitab
  - Too many functions to describe in this clinic format
- ...not six sigma training

# [ Why use Minitab? ]

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- Better than Excel for statistical analysis
  - Formulas are verified at Minitab
  - Some formulas require the use of tables
    - Much easier in Minitab than Excel
- Most six-sigma trainers use Minitab to support the statistical tools
- Ease of use for complex initiatives such as GR&R, and DOE

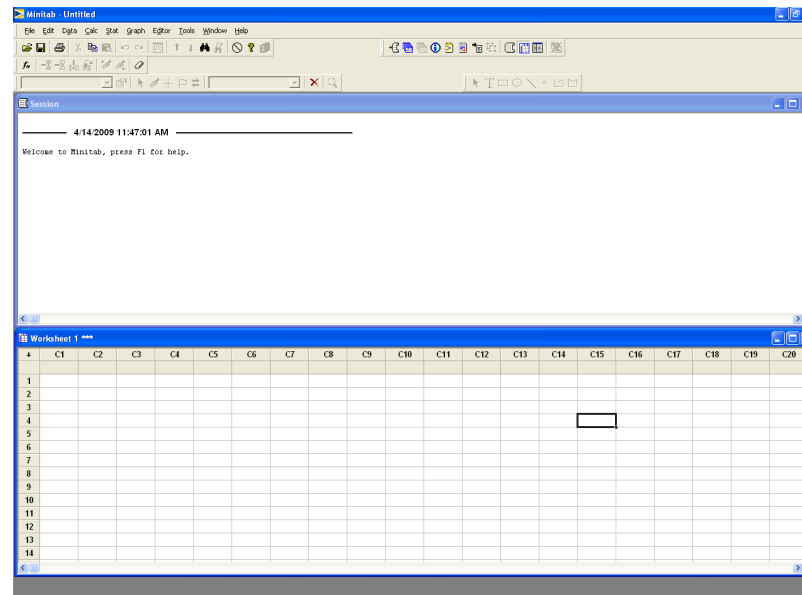
# [ Screen Navigation ]

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- Each project consists of a
  - Session window
  - One or more worksheet(s)
  - One or more graphic windows
  - Project summary window

# [ Session window ]

- Where non graphical outputs are shown
- Also can be used to input “Minitab” code



# [Worksheet]

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- Can have multiple worksheets
  - Only one can be active at a time
    - Designated by \*\*\* next to spreadsheet name
  - Clicking on worksheet makes it active
  - Also by right clicking, can rename worksheet
- NOT THE SAME AS EXCEL
  - Cannot create functions



# [ Graphic Screens ]

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- Display graphs, charts, etc
- Can have multiple screens

# [ Project Summary ]

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- Shows everything done for the given project

# [ Data entry ]

- Data can be entered by
  - Typing in the worksheet
  - “CCP” from Excel  
- Data is automatically designated as
  - Numerical
  - Text (t)
  - Date / time (d)
  - Can change from different types
- Calculator function
  - Can use columns as inputs to calculations
- Header row in gray
  - Does not accept # in header

# [ Tools Navigation ]

- Common / most useful features
  - “*Ctrl-e*”
    - Re-run the last command
  - Stacking columns
    - Allows to put multiple column into one column for analysis (*data > stack*)
  - Stat-guide
    - Statistical support
- Saving files
  - Can save the entire project, or graph, or worksheet
- Report
  - Append information to report for report generation
  - Can also CCP into MSWord

# [ Key tools ]

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- Data
  - Stack
  - Change code type
- Calc
  - Calculator
  - Make patterned data
    - Useful for Gage R&R
  - Random data
- Stats
  - Basic statistics
  - Quality tools
- Graph

# [ My Background ]

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- Minitab user for over 15 years
  - Started with v9
- Versed in JMP as well
- MS Applied Statistics
- Former QE/OpEx Director of Allergan
- Now open to consulting
  - Contact me via: [ppatel0415@gmail.com](mailto:ppatel0415@gmail.com) or 805-760-1094.