

- Variables and assignment
- Data types
- Indexing, subsetting

- Viewing data and summaries
- Naming conventions
- Objects
- 5. Getting Data into the R Environment**
- Built-in data
- Reading data from structured text files
- Reading data using ODBC

Day 2

- 6. Control Flow**
- Truth testing
- Branching
- Looping
- Vectorized calculations
- 7. Functions in Depth**
- Parameters
- Return values
- Variable scope
- Exception handling
- 8. Handling Dates in R**
- Date and date-time classes in R
- Formatting dates for modeling
- 9. Descriptive Statistics**
- Continuous data
- Categorical data
- 10. Inferential Statistics**
- Bivariate correlation
- T-test and non-parametric equivalents
- Chi-squared test
- Distribution testing
- Power testing

Day 3

- 11. Group By Calculations**
- Split apply combine strategy
- 12. Base Graphics**
- Base graphics system in R
- Scatterplots, histograms, barcharts, box and whiskers, dotplots
- Labels, legends, Titles, Axes
- Exporting graphics to different formats
- 13. Advanced R Graphics: GGPlot2**
- Understanding the grammar of graphics
- Quick plot function
- Building graphics by pieces
- 14. Linear Regression**
- Linear models
- Regression plots
- Confounding / Interaction in regression
- Scoring new data from models (prediction)
- 15. Conclusion**

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Notes:

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Contact Person :

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You are encouraged to use the course schedule as a guide to plan your training. The schedule is accessible at www.swpark.or.th for more information.

