

[SAS-JANR14]: JMP Software: ANOVA and Regression

Length : 2 Day
Delivery Method : Instructor-led (Classroom)

Course Overview

This course teaches you how to use analysis of variance and regression methods to analyze data with a single continuous response variable. You learn how to perform elementary exploratory data analysis (EDA) and discover natural patterns in data. Important statistical concepts such as confidence intervals are also introduced.

Audience Profile

Analysts and researchers with some statistical knowledge

At Course Completion

Learn how to use JMP software to

- Interpret confidence intervals
- Perform hypothesis tests
- Compare multiple population means with one-way ANOVA
- Use simple linear regression to analyze relationships between continuous variables
- Use the general linear model to build models between a continuous response and any number of continuous or categorical predictors
- Assess interactions between factors and curvature
- Evaluate assumptions of statistical hypothesis testing.

Pre-Requisites

Before attending the course, you should complete the JMP Software: A Case Study Approach to Data Exploration course or have equivalent experience.

This course addresses JMP software.

Course Outline

Module 1: Introduction to Statistics

Lessons

- Statistical concepts
- Descriptive statistics and some of their graphs
Inferential statistics
- Hypothesis tests
- One-sample t test

Module 2: Analysis with a Categorical Factor

Lessons

- One-way ANOVA

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- Multiple comparisons
- Power and sample size

Module 3: Analysis with a Continuous Factor**Lessons**

- Exploring relationships
- Simple linear regression
- Polynomial regression

Module 4: Model Building**Lessons**

- Introduction to model building
- Combining factors
- Model interpretation
- When things go wrong

Module 5: Capstone Exercises**Module 6: References****Module 7: Additional Resources****Lessons**

- Paired t test
- Alternatives to ANOVA when assumptions are violated
- Contrasts in n-way ANOVA
- Equivalence testing

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