



Structural Equation Modelling

Intermediate Module

- **Overview**

Structural Equation Modelling (Intermediate) using IBM AMOS/SMART PLS is a course that enables participants to improve their measurement and structural models. Delegates will also learn how to provide statistical evidence of composite reliability, convergent and discriminant validity of the research instruments. Finally they will learn how to report their SEM results on an academic paper or a thesis.

- **Audience**

- Academic researchers and postgrad students
- NGOs involved in research
- Any research company

- **Prerequisites**

- General computer literacy
- Completion of SPSS basic

- **Course Outline**

- *Testing the validity of the instruments*
- Testing Cronbach Alpha and composite reliability
- Testing convergent and discriminant validity



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Tel: +27 110 716 993

Email: Info@osmozconsulting.co.za

Website: www.osmozconsulting.co.za

- Developing a Correlation-AVE Square root matrix

1. Improving a measurement Model (Confirmatory Factor Analysis)

- How to detect the outliers
- How to use the modification indices
- How to use the standardised residual covariance

2. Improving a structural model

- How to detect the outliers
- How to use the modification indices
- How to use the standardised residual covariance

3. Writing a good SEM-based academic paper

- Writing a SEM methodology
- Reporting on the relevant model fit indices
- Reporting on key SEM outputs
- Presenting the findings using SEM Amos/Smart PIs

4. Practical case study



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351 Ontdekkers Road, Roodepoort-Johannesburg, South Africa

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