



**YOUR TEAM PLAYER**  
ONSITE EDUCATION SERVICES



## Your Team Player Course Summary

#170 - SAS Macro Coding for efficient, modular and parameter driven programs

### **YourTeamPlayer**

-

Admin

### **This document contains:**

Welcome to the team  
Course Topics  
Course Logistics  
Terms and Conditions

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1300 340 098 or (Mobile) 0408 054 893  
info@yourteampayer.com



Thank you for visiting TeamPlayer onsite education website ([www.YourTeamPlayer.com](http://www.YourTeamPlayer.com)) and constructing your own customised course.

This proposal outlines your course topics and delivery details. Admin [info@yourteampayer.com](mailto:info@yourteampayer.com) can access these details at [www.YourTeamPlayer.com](http://www.YourTeamPlayer.com) at any time. From the website, you can make any changes you like, copy this course, create new ones and reproduce this document at your own discretion.

All our training offerings are designed to be conducted at your premises and can be entirely customised to use your own data and business scenarios. Our trainers are highly experienced professionals and have a broad range of practical experience.



## #170 - SAS Macro Coding for efficient, modular and parameter driven programs

What name would you like to give to this course?

**#170 - SAS Macro Coding for efficient, modular and parameter driven programs**

Your Name

**Admin**

Your Email Address

**info@yourteampayer.com**

Your Daytime phone number

**1300 340 098**

Approximate date(s) you would like to run this event

**-**

Approximate Number of Participants

**3**

Delivery Address

### Computing and room facilities

Where would you like to conduct this training event?

**We have a meeting room / Board room of an appropriate size**

What computer facilities would you like to use for this event?

**We would prefer to use our own computers and move them ourselves**

Do you have a SAS 9.2 computing environment we can use for this event?

**We can use our existing SAS 'Development or testing' environment**

### Provision of Web based Pre requisite testing and summary analysis

Please provide web based pre requisite testing and a resulting summary analysis for intended participants.

**No Thanks**

Please provide web based post-course testing and analysis

**No Thanks**



## Course Topics

SAS® Programming - Macro
<p><b>SAS® Macros - Automatic Macros and Macros as parameters</b></p> <ul style="list-style-type: none"><li>• Introduction to the SAS macro facility</li><li>• Automatic macros</li><li>• Macro references</li><li>• Text substitution with user defined macros</li><li>• Delimiting macro references</li></ul>
<p><b>SAS® Macros - Macro tokenisation, execution and macro functions</b></p> <ul style="list-style-type: none"><li>• Tokenisation and macro resolution</li><li>• Compilation and execution of macros</li><li>• Macro functions in open code.</li><li>• Creating macros from Dastep and SQL</li></ul>
<p><b>Loading data values into Macro variables</b></p> <ul style="list-style-type: none"><li>• Considerations for loading macro values from data.</li><li>• Considerations for using macro variables in the data step</li><li>• Loading macro variables from the Data step</li><li>• Loading macro variables from Proc SQL</li></ul>
<p><b>SAS® Macros - Macro Programming</b></p> <ul style="list-style-type: none"><li>• Macro programs to dynamically generate SAS code and validate parameters</li><li>• Passing parameters to you macro program</li><li>• Conditional processing in the Macro language</li><li>• Iterative processing in the Macro language</li><li>• Autocall facility macros</li><li>• Indirect reference macros (iteratively re-resolved macros)</li><li>• Global and Local macro symbol tables</li></ul>

Total approximate delivery time based on selected topics: 2.00 Days.  
This estimate includes breaks and is based on a 7hr training day



## Terms and Conditions

### **Course Cost**

*An invoice for the full price of the course (excluding travel expenses) will be raised upon course confirmation and is payable before the course commencement date. If the instructor needs to travel from interstate, any further travel related expenses will be invoiced separately after course completion. These expenses will be under the levels set out in current [ATO rulings](#).*

### **Course Cancellation Policy**

*Cancellations up to 2 weeks prior to the event will be refunded in full. Any expenses incurred by TeamPlayer within 2 weeks of the event will be deducted from any refunded amounts. Any cancellations one business day prior or on the day of the event will not be refunded.*

### **What happens next**

*Upon booking your course. An invoice will be raised (excluding travel expenses) and sent to you via email along with a link to authorise our client services document online via EchoSign. The document has been specifically designed to provide you with assurances YourTeamPlayer respects your intellectual property, software licences, confidential information and so forth.*

*After we receive authorisation and payment. We will send you or the students a confirmation email containing all the course details and make all the necessary arrangements for your course.*