



QUALITY, ISO STANDARDS AND AUDITING

Advanced Product Quality Planning and Control Plans

5 day course

Classroom, online or in-house

Course overview

Problems discovered at launch, once tooling is cut and the customer is waiting, are the most expensive problems a manufacturer can have. Delegates work through the five phases of Advanced Product Quality Planning: planning and defining the programme, product design and development, process design and development, product and process validation, and feedback and corrective action. They build the outputs that matter: special characteristics lists, process flow diagrams, the link from process FMEA to the control plan, prototype, pre launch and production control plans, reaction plans, run at rate trials and the production part approval package. Gateway reviews and cross functional team roles are covered for automotive suppliers and for mining equipment and engineering firms adopting the method. Delegates leave able to plan a launch and write control plans that operators actually use.

What you will learn

- Explain the five phases of Advanced Product Quality Planning and their outputs
- Plan a cross functional launch team with gateway reviews
- Identify special and critical characteristics from customer requirements
- Develop process flow diagrams that feed the process FMEA
- Write prototype, pre launch and production control plans
- Specify reaction plans for out of specification conditions
- Plan run at rate trials and assemble the production part approval package
- Apply lessons learned from launches to the next programme

Who should attend

- Product and process engineers
- New product introduction and launch managers
- Quality engineers at automotive and component suppliers
- Manufacturing engineers in mining equipment and general engineering
- Supplier quality engineers approving new parts

Course outline

- 01 The cost of late discovery
- 02 Planning and defining the programme
- 03 Product design and special characteristics
- 04 Process design and flow diagrams
- 05 Linking the process FMEA to the control plan
- 06 Prototype, pre launch and production control plans
- 07 Reaction plans and operator instructions
- 08 Run at rate and part approval
- 09 Feedback, corrective action and lessons learned

Upcoming dates

Dates	Venue	Format	Fee per delegate
26 to 30 October 2026	Pretoria, South Africa	Classroom	R19,950
8 to 12 February 2027	Johannesburg, South Africa	Classroom	R19,950
1 to 5 March 2027	Online	Online	R8,500



Fees and how to register

This 5 day course is **R8,500** per delegate online, **R19,950** in the classroom in South Africa, Botswana, Namibia, Lesotho and Eswatini, and **USD 1,325** in the classroom elsewhere in Africa. In-house training is quotation on request. Book 2 or more delegates on this course and save 10%.

To register or request an in-house proposal, visit www.afrisciencegroup.com, email info@afriscience.co.za, or WhatsApp us on **+27 63 479 1136**.

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