


SC21 Overview Presentation

The background is a dark blue abstract image featuring two robotic arms. The arm on the left is blue and the one on the right is orange. They are positioned as if they are about to interact or are in the process of interacting. The image has a futuristic, high-tech feel with some light flares and motion blur effects.

For more information about this presentation
please contact: marika.derosa@adsgroup.org.uk

www.sc21.org.uk

SC21: Continually improving and accelerating the Competitiveness and Capability of the UK's Aerospace & Defence Supply Chains.

SC21 (21st Century Supply Chains) enables our supply chains to continuously improve capability, in order to be more competitive regionally, nationally and internationally. SC21 does this by providing best in class improvement programmes, supported by industry experts, working in a collaborative approach in the best interests of all our Aerospace and Defence Stakeholders.

Pursuit of Excellence



SC21 promotes the pursuit of excellence both in what we do, and in the companies we support. It encourages the achievement of excellence through acting with integrity, accountability and professionalism.

Working Collaboratively



SC21 collaborates transparently across and within industry sectors in the best interests of the UK's national prosperity. We help to optimize the customer-supplier relationship for mutual benefit.

Customer Trust



SC21 works with our Stakeholders to understand their challenges, anticipate their needs and explore solutions together, working to achieve long-term customer satisfaction by delivering on our promises and assuring the quality of our solutions and services.

Agile and Innovative



SC21 aims to continually improve quality and work more efficiently, striving to built on new ideas to achieve greater competitive advantage for our Stakeholders.

- A proven **improvement programme** designed to accelerate the performance and competitiveness of UK Aerospace and Defence supply chains
- Defines **performance goals**, standardising the approach and tools for continuous sustainable improvement
- National programme led by ADS, **collaborating** with participant companies, prime contractors, regional trade associations (RTAs), LEPs, strategic partners, practitioners, training partners, assessors, providers and ambassadors.
- More than 300 companies within UK supply chain are **SC21 participants** currently
- Endorsed by all major UK **aerospace and defence** companies
- Overseen by the **Aerospace Growth Partnership** (AGP) and supported by the UK Aerospace Supply Chain **Competitiveness Charter**

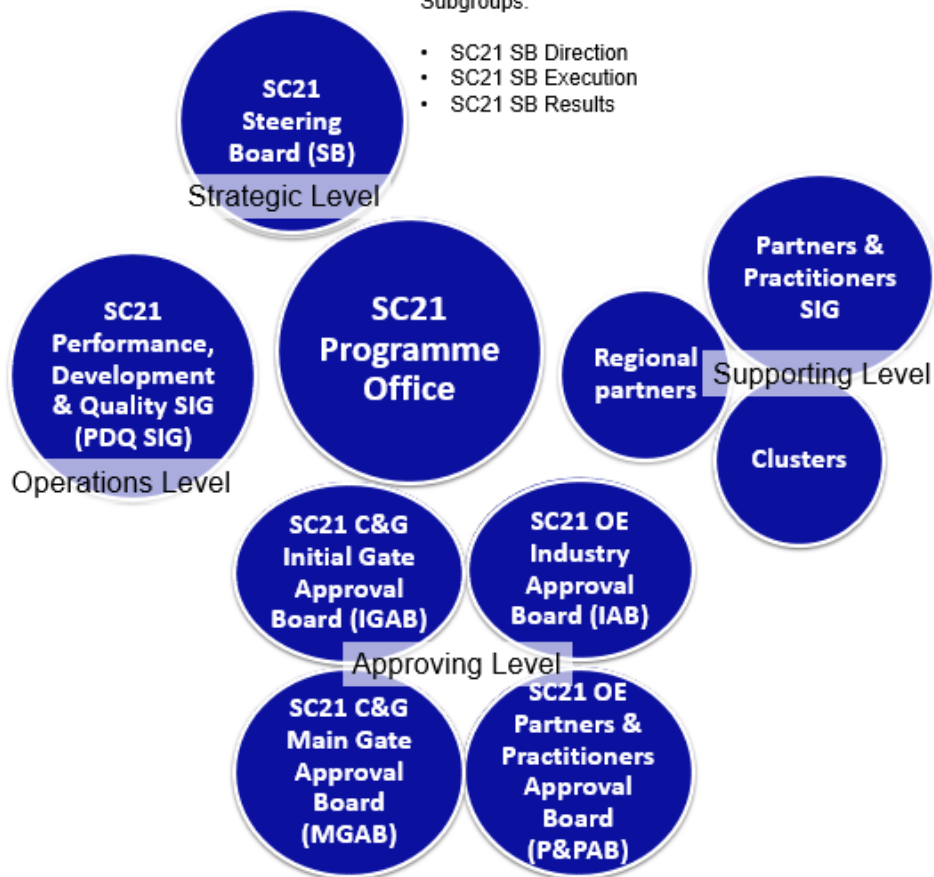


Subgroups:

- SC21 PDQ Process Guides Subgroup
- SC21 PDQ ManEx / BusEx Subgroup
- SC21 PDQ RelEx Subgroup
- SC21 PDQ Quality & Delivery Subgroup
- SC21 PDQ Award Submissions Subgroup

Subgroups:

- SC21 SB Direction
- SC21 SB Execution
- SC21 SB Results



Colin Hart

Head of SC21

Marika De Rosa

SC21 Data Management and Operations

Basilio Briguglio

SC21 Project Manager

Jeff Schutter

SC21 Finance and Administration Specialist



Industry supporters

ADS

SC21



AIRBUS



BAE SYSTEMS



COBHAM



KUEHNE+NAGEL



MEGGITT



QINETIQ

Raytheon



THALES



SC21 participants agreed to 7 commitments when starting their journey

- SC21 Business Culture
- Delivering Innovation
- Through Life Solutions
- Delivering Your SC21 Plan
- Leadership
- Ethical Practices
- Increased Pace of Change

What this really means...

- Standard tools and techniques
- Standard performance recognition
- Increased transparency
- Improved communication and collaboration

The three SC21 programmes are designed to help many suppliers with their continuous improvement in the face of increasingly capable competition:



SC21 Lite

Helping small and medium-sized companies to start on their SC21 continuous improvement journey.



SC21 Operational Excellence (OE)

Using an internationally recognised method to enable participants to improve their operational effectiveness, performance and industry recognition by achieving targets of delivery and quality excellence.



SC21 Competitiveness & Growth (C&G)

Increasing competitiveness and improved organisational capability.

The SC21 C&G programme has been allocated with £10m Government funding, matched by industry, as part of the Aerospace Sector Deal. SC21 C&G utilises the National Manufacturing Competitiveness Level (NMCL) System. This system was developed by an ADS and SMMT led consortium, supported by industry primes and OEMs. It is a set of processes, tools and techniques that not only assesses a company's competitiveness and indicates how they are performing, but also highlights areas where improvement can and should be made.

Have a look to this video for a short overview of the programmes:





SC21 Lite

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SC21 Operational Excellence (OE)

Using an internationally recognised method to enable participants to improve their operational effectiveness, performance and industry recognition by achieving targets of delivery and quality excellence.

Over 15 years of SC21 OE

Stats as at March '22



Delivery*	≥ 99.00%	≥ 95.00%	≥ 90.00%
Quality*	≥ 99.90%	≥ 99.50%	≥ 98.00%
ManEx/BusEx/RelEx	≥ 500	≥ 400	< 400

* Rolling 12-month Performance

For more information
please contact:

Manika.derosa@adsgroup.org.uk

SC21 OE follows a simple 4-step framework, culminating in the achievement of industry-recognised performance standard awards, with three possible levels: bronze, silver and gold.



Increase Productivity



Reduce Quality costs



Accelerate Competitiveness



Optimise Delivery



Improve Relationships



Boost Quality and Delivery Performance



- OEM 1 (38 Participants on the programme)



On Time Delivery

UK/ROI Suppliers
80.84%

SC21 Active Signatories
90.35%

SC21 Awardee
95.61%



Quality Acceptance Rate

UK/ROI Suppliers
97.72%

SC21 Active Signatories
98.67%

SC21 Awardees
99.12%

- OEM 2 (22 participants on the programme)



On Time Delivery

UK/ROI Suppliers
< 84%

SC21 Active Signatories
96%

- OEM 3 (40 participants on the programme)



On Time Delivery

UK/ROI Suppliers
84.60%

SC21 Active Signatories
86.86%

SC21 Awardees
91.36%

Increase Productivity

Accelerate Competitiveness

Improve Relationships

Reduce Quality costs

Optimise Delivery

Boost Quality and Delivery Performance

SC21 Non SC21





The SC21 OE Programme is an integral part of our Supply Chain Management Programme, and we encourage our suppliers to engage in this national Aerospace and Defence improvement programme



David Quinn - Supply Chain Director



Collins Aerospace

(Previously B/E Aerospace)

The SC21 OE award is an industry recognised excellence model which will raise our profile as a dynamic company within the global commercial interior market.



The programme has allowed us to develop skills and capabilities, which will ensure a culture of continuous improvement within our organisation.

Joanne Liddle - Managing Director





Poor supplier performance is a key barrier to competitiveness and HENCE growth. The SC21 programme is a recognised and proven approach to improving business culture and performance by implementing leaner processes, raising productivity and global competitiveness of UK Aerospace and Defence suppliers

Colin P. Smith CBE – Chair



Value Added per
Person
Up 23.5 %

Quality
99.99%

On-time
Delivery
99%
from 87%

Utilisation
Stores Man hours
down 40 %

Stores Capacity
up 40 %

Innovation
**Saving
£95k p.a.**

The SC21 Achieving Supply Chain Excellence events are aimed at helping you to improve your business in the global Supply Chain. These events provide an excellent networking opportunity and give attendees the chance to meet with the ADS SC21 project team, representatives from SMEs, primes and Government. The **agenda** usually covers:

- Senior industry key note speakers
- UK industry performance award presentations
- Updates on major industry growth and innovation projects
- SC21 programme update
- A focused networking opportunity to meet senior supply chain companies
- Case study examples of best practice from industry.



3. Certification & Quality Improvement

AS/JISQ/EN9100

As an important part of the SC21 programme, quality is a critical element and performance area. The promotion of common industry standards is an important principle and objective to focus on. The global certification standard for the aerospace, defence and space sector is AS/JISQ/EN9100. The AS/JISQ/EN9100 standard is based on ISO9001 quality management system requirements and specifies additional requirements for the aerospace, defence and space sector.

The AS/JISQ/EN 9100 standard was originally developed as the quality management system standard for aerospace by the [International Aerospace Quality Group \(IAQG\)](#) and is fully supported globally by all the major aerospace prime manufacturers. To be recognised as having attained this standard a company needs to obtain certification from an accredited third party certification body. These organisations are covered by an industry oversight programme administered in the UK by the SBAC, with experienced quality audit professionals from UK industry undertaking the oversight audits. The UK scheme is in turn subject to oversight as part of an international process directed by the IAQG. Companies certified to AS/JISQ/EN 9100 are entered onto an international database, identified as the [Online Aerospace Supplier Information System \(OASIS\)](#), with more than 1000+ UK aerospace sites already registered.

ADS's expectation is that all SC21 members will gain recognised certification to AS/JISQ/EN9100 (or equivalent) and that this expectation shall be flowed throughout the supply chain.

Certification to AS/JISQ/EN9100 is increasingly becoming a customer contractual requirement. It can be used as a discriminator in supplier selection and also in support of supplier approval activities.

Benefits

- Certification to AS/JISQ/EN9100 (or equivalent) is recognised by customers
- Companies certified to AS/JISQ/EN9100 are entered onto the [OASIS \(online aerospace supplier information system\)](#) database
- Enhanced sense of belonging to the fraternity of recognised quality suppliers.

How to obtain certification to the AS9100 standard

- Obtain a copy of the latest standard
- Undertake a quality management system 'gap analysis' between ISO9001 and AS/JISQ/EN9100 and address any shortfalls
- Initiate discussion with an OASIS registered Certification Body who will provide guidance as to the process to be followed.

SC21 Programme Quality

Quality Interventions - Nadcap



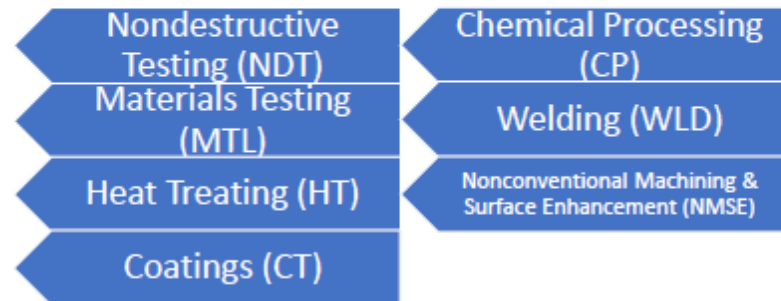
Nadcap is an industry-managed approach to conformity assessment that brings together technical experts from both Industry and Government to establish requirements for accreditation, accredit Suppliers and define operational program requirements. This results in a standardized approach to quality assurance and a reduction in redundant auditing throughout the aerospace industry because Prime contractors, Suppliers and Government representatives have joined forces to develop a program that:

- Established stringent industry consensus standards that satisfy the requirements of all participants
- Replaces routine auditing of suppliers with one approved through a consensus decision-making process of members from the user community
- Conducts more-in-depth, technically superior special process audits
- Improves supplier quality throughout industry through stringent requirements
- Reduces costs through improved standardization
- Utilizes technically expert auditors to assure process familiarity
- Provides more frequent audits for Primes, fewer audits for Suppliers.

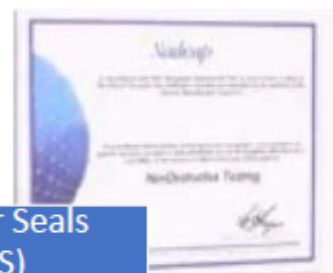
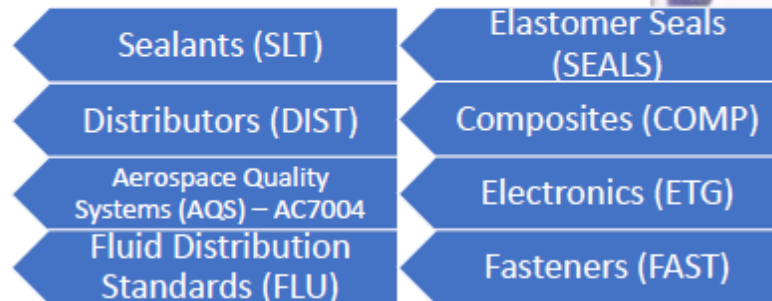
Nadcap accreditation is a **contractual** requirement and **not** a mandatory AS/EN9100 requirement.

Nadcap involves a stringent audit by PRI personnel.

Special Processes



Systems & Products



Background

The ADS UK Quality Board is a broad multi-sector, interest group with a national and international focus on all aspects of a value based strategic direction for quality that delivers mutual benefit.

Purpose

The purpose of the ADS Quality Board is to create and decide on a strategic direction for quality in the industry, to look at specific actions and combine specialties in order to bring solutions to problems in the industry, to respond to and support National and International Bodies, to facilitate communication to ADS Board & Member companies.

Method

The ADS UK Quality Board uses the following methods:

- Influence, respond and provide support to IAQG/EAQG proposals from a National Industry viewpoint
- Influence, respond and provide support to CAA/EASA/MOD/MAA Quality developments and proposals.
- Provide strategic direction and support to CBMC and SC21 Performance, Delivery & Quality Special Interest Group (SC21 PDQ SIG)
- Coordination of industry resource and the development of Quality professionals
- The Benchmarking of “Best Practice”
- Effective promotion, engagement and involvement of the strategic direction for quality with both the ADS Board and Member Companies.

International Aerospace Quality Group (IAQG)



3.1 AS/EN9100 is the Quality Management system for the Aerospace industry and registration is becoming a global requirement. It publishes Standards through SAE International

European Aerospace Quality Group (EAQG)



3.2 EAQG is a cooperative organization within the aerospace industry in Europe, representing Europe, Middle East and Africa and it is the European sector of the IAQG. It publishes Standards through ASD-STAN

Asia Pacific Aerospace Quality Group (APAQG)



3.3 EAQG is a cooperative organization within the aerospace industry in Europe, representing Europe, Middle East and Africa and it is the European sector of the IAQG. It publishes Standards through the Society of Japanese Aerospace Companies (SJAC)

Civil Aviation Authority (CAA)



UK specialist aviation regulator.

European Union Aviation Safety Agency (EASA)



EASA approve and certify aeronautical products before they can go into production or operation.

Ministry of Defence (MoD)



The MoD is the Branch of UK Government that is in charge of Defense.

Military Aviation Authority (MAA)



The Military Aviation Authority is responsible for the regulation, assurance and enforcement of the defence air operating and technical domains

The UK CBMC is the UK National Industry Committee operating as part of the European Aerospace Quality Group (EAQG) Other Party Management Team (OPMT).

This committee has specific responsibilities for implementation and governance of the International Aerospace Quality Group (IAQG) Industry Controlled Other Party (ICOP) Process within the UK as described within 9104 series documentation.

Membership of the committee includes the following organisations:

- Aerospace and Defence Industry (EAQG / IAQG/ NAIA Members) - Aerospace Primes, Engine Manufacturers and Major Systems & Equipment Manufacture. (e.g. Airbus, BAE Systems, Boeing, Bombardier, Rolls Royce, Goodrich, Leonardo Company, MBDA, Meggitt, Rockwell Collins)
- EAQG/IAQG Representative
- UK National Accreditation Board (NAB) – United Kingdom Accreditation Service (UKAS)
- Certification Bodies (Accredited and recognised) - 9100 Series (BSI, BVC, LRQA, NQA, SGS, URS Certification)
- Auditor Authentication Body (AAB) – APM Group Ltd
- Approved Training Providers (TEC Transnational and TPT Consultancy)
- Aviation and Defence Regulators (UK Civil Aviation Authority and UK Ministry of Defence)
- National Aerospace Industry Association (NAIA) – ADS

The UK CBMC operates in accordance with IAQG and EAQG procedures in addition to a series of procedures maintained by the UK CBMC.

Stay connected with us:

- Talk with the SC21 Programme Office or send an email at  sc21@adsgroup.org.uk
- Visit regularly our website for the recent updates:  www.sc21.org.uk
- Follow our page on LinkedIn:  www.linkedin.com/showcase/ads-sc21
- Follow our page on Twitter:  <https://twitter.com/AdsSc21>
- Download the SC21 Overview presentation:  <https://www.sc21.org.uk/about/>
- Explore the Improvement Library:  <https://www.sc21.org.uk/sc21-tools/improvement-library/>
- Watch some Youtube videos:  [SC21 YouTube Channel](#)
- Have a look to the SC21 Map:  <https://www.sc21.org.uk/about/participants/>

Click here

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Any questions?