



147 Findings Analysis

Mark Panton
04/02/2020

Airworthiness Workload



Airworthiness manages approximately 1400 approvals located not only within the UK, but also all around the world. This includes 100 overseas approvals on behalf of EASA in such locations as Singapore, Australia and China and 148 approvals on behalf of the UK Military. Airworthiness also manages 300 approvals created by the Bi-lateral agreements with the United States (FAA) and Canada (TCCA) and Brazil. Beyond just approval oversight AW carries out over 1,000 SAFA inspections, 250 ACAMs, 200 CofAs & permits, Certification/design, MOR and training/consultation.



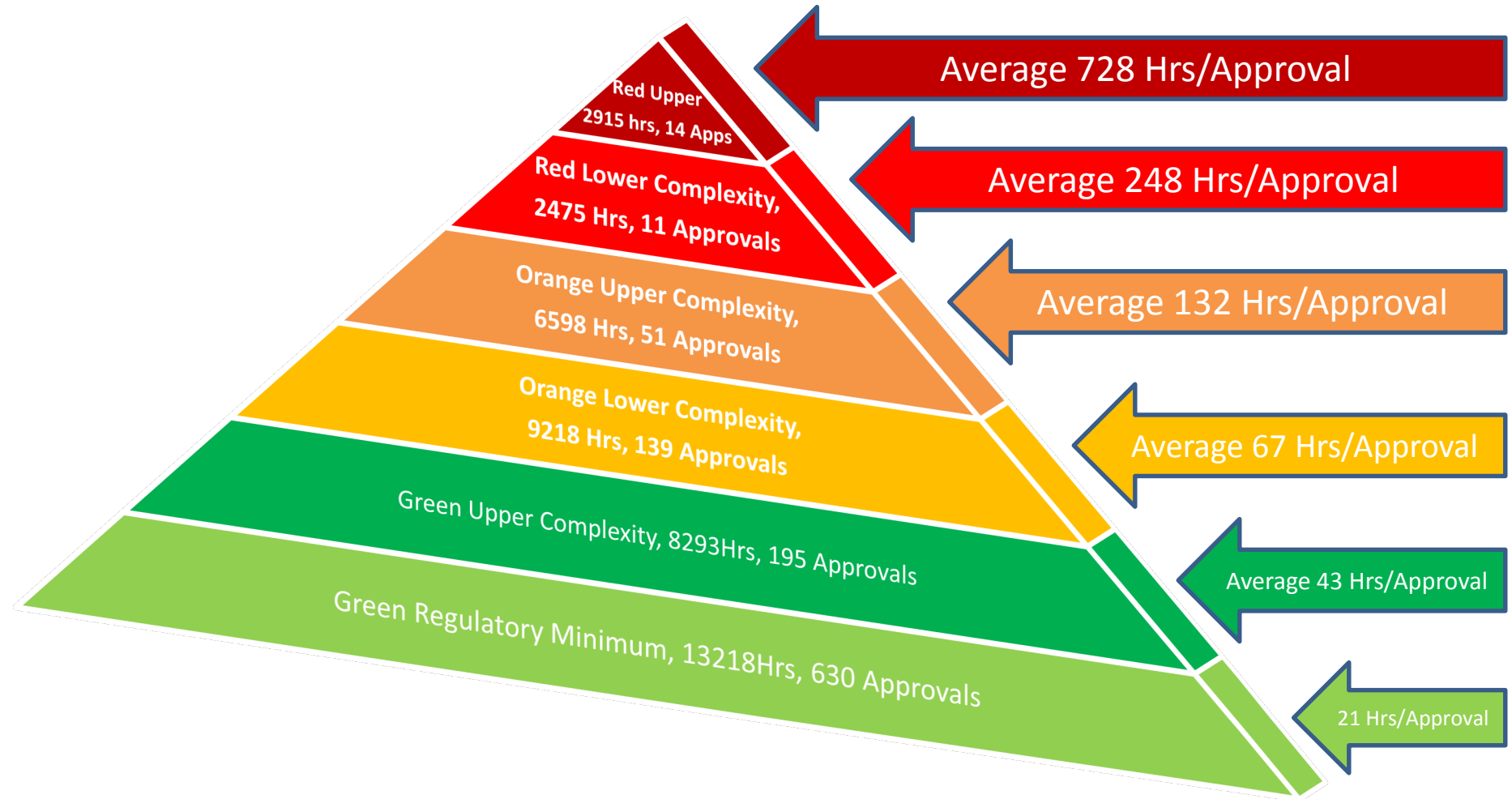
1419 Approvals (Overview)

UK Pt 145 Maintenance	352
UK Pt MG Continuing Airworthiness	197
UK Pt 21G production	166
UK Pt 147 Training Organisations	56
Overseas Approvals (CAAi)	148
Military (CAAi)	100
UK BCAR	100
FAA and TCCA	300

6131 Q-Pulse Audits/Surveys/Other

UK Pt 145 Maintenance	1250
UK Pt MG Continuing Airworthiness	1250
UK Pt 21G production	470
UK Pt 147 Training Organisations	550
Overseas Approvals (CAAi)	400
Military	300
UK BCAR	200
FAA and TCCA	450

Airworthiness Complexity - New



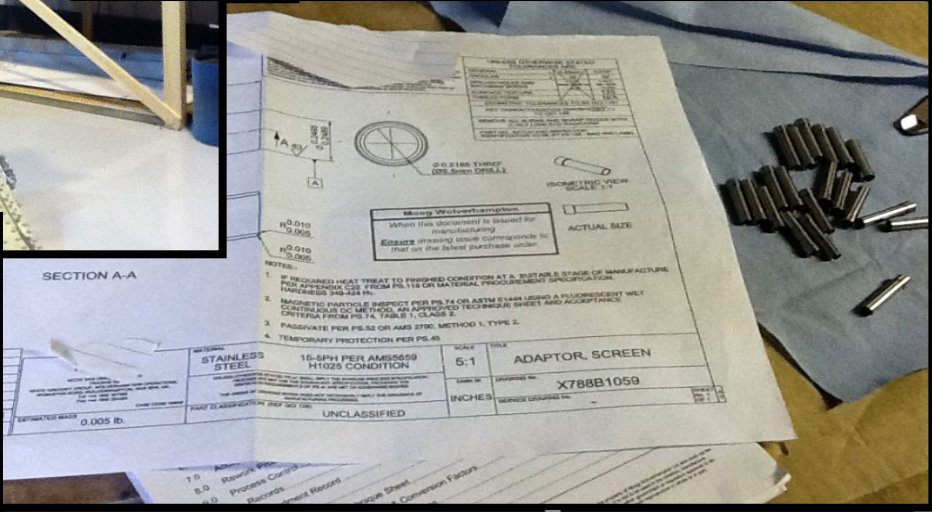
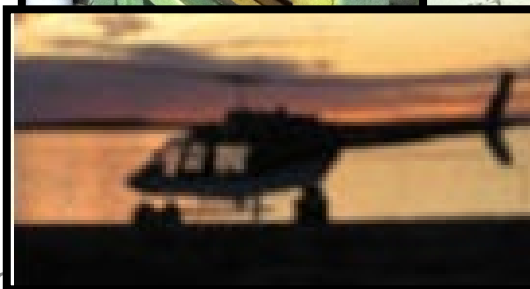
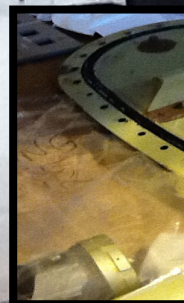
This diagram demonstrates that the average base-line hours (Combination of Complexity/Performance) as planned for each approval, allocates our Resource proportionally.

Airworthiness Workload – 147

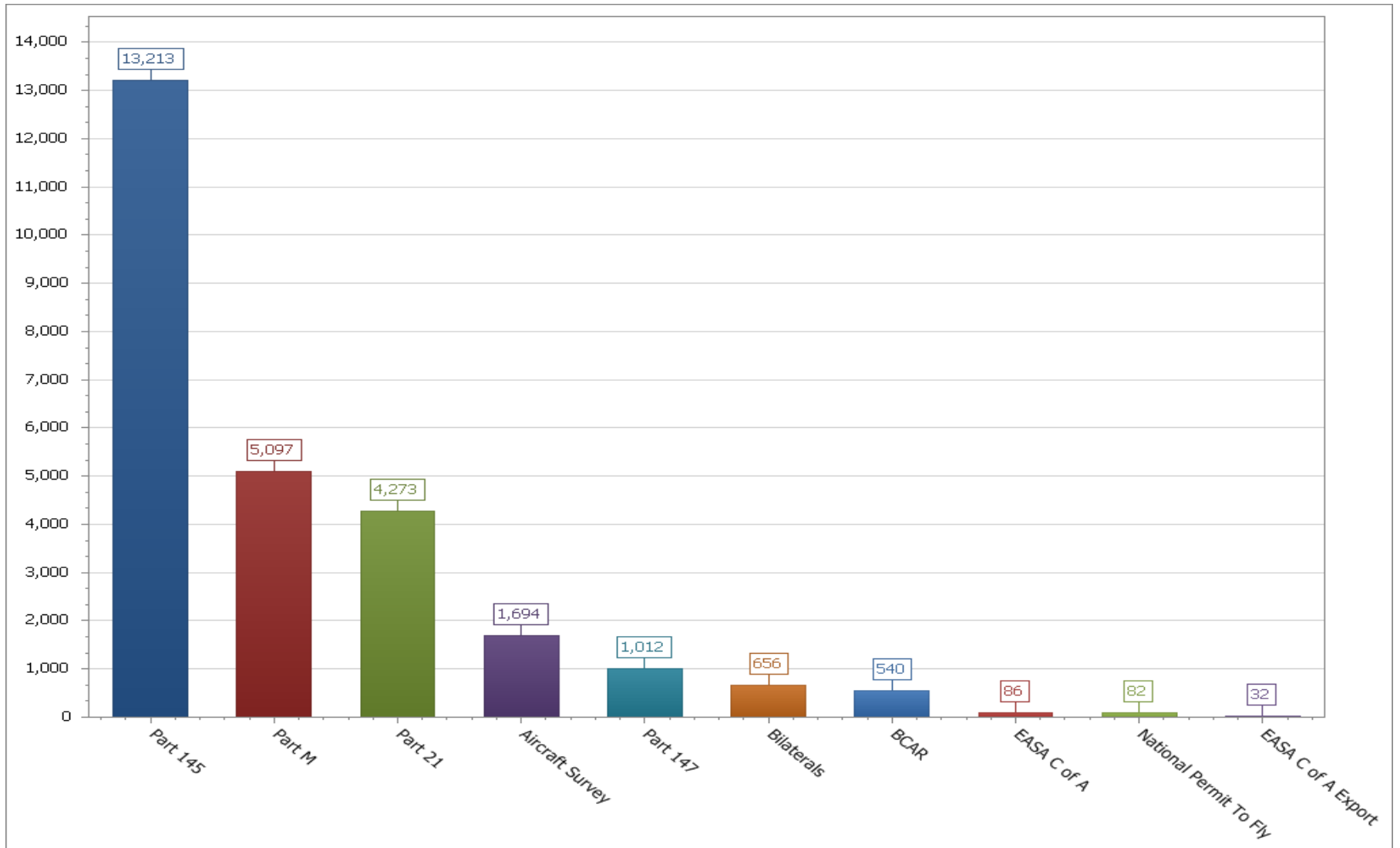


AW/Green Regulatory Minimum	13
AW/Green Upper Complexity	18
AW/Orange Lower Complexity	11
AW/Orange Upper Complexity	2
AW/Red Lower Complexity	2
Pending - Initial	2

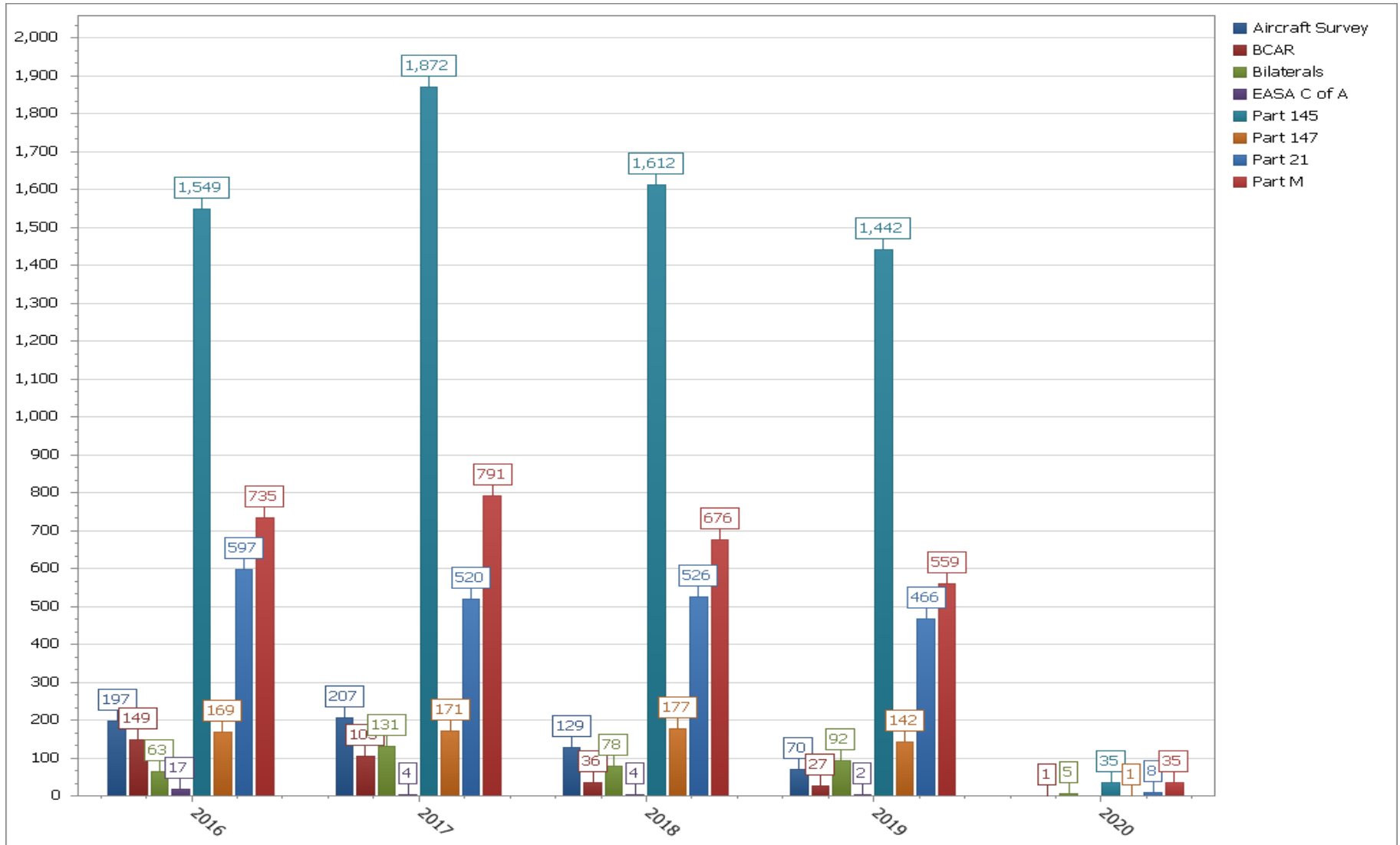
Findings Analysis 2019/20



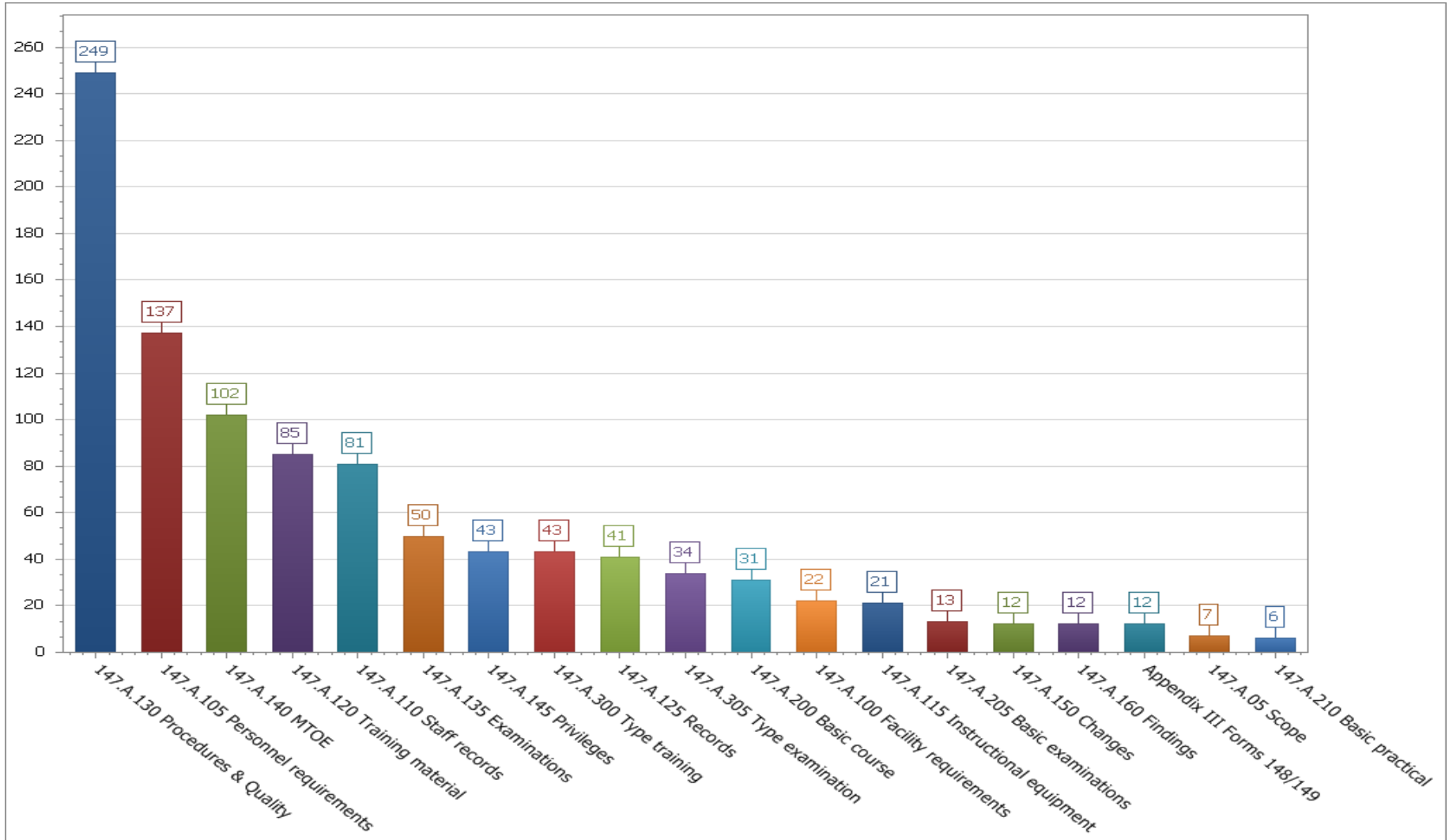
All Airworthiness Findings



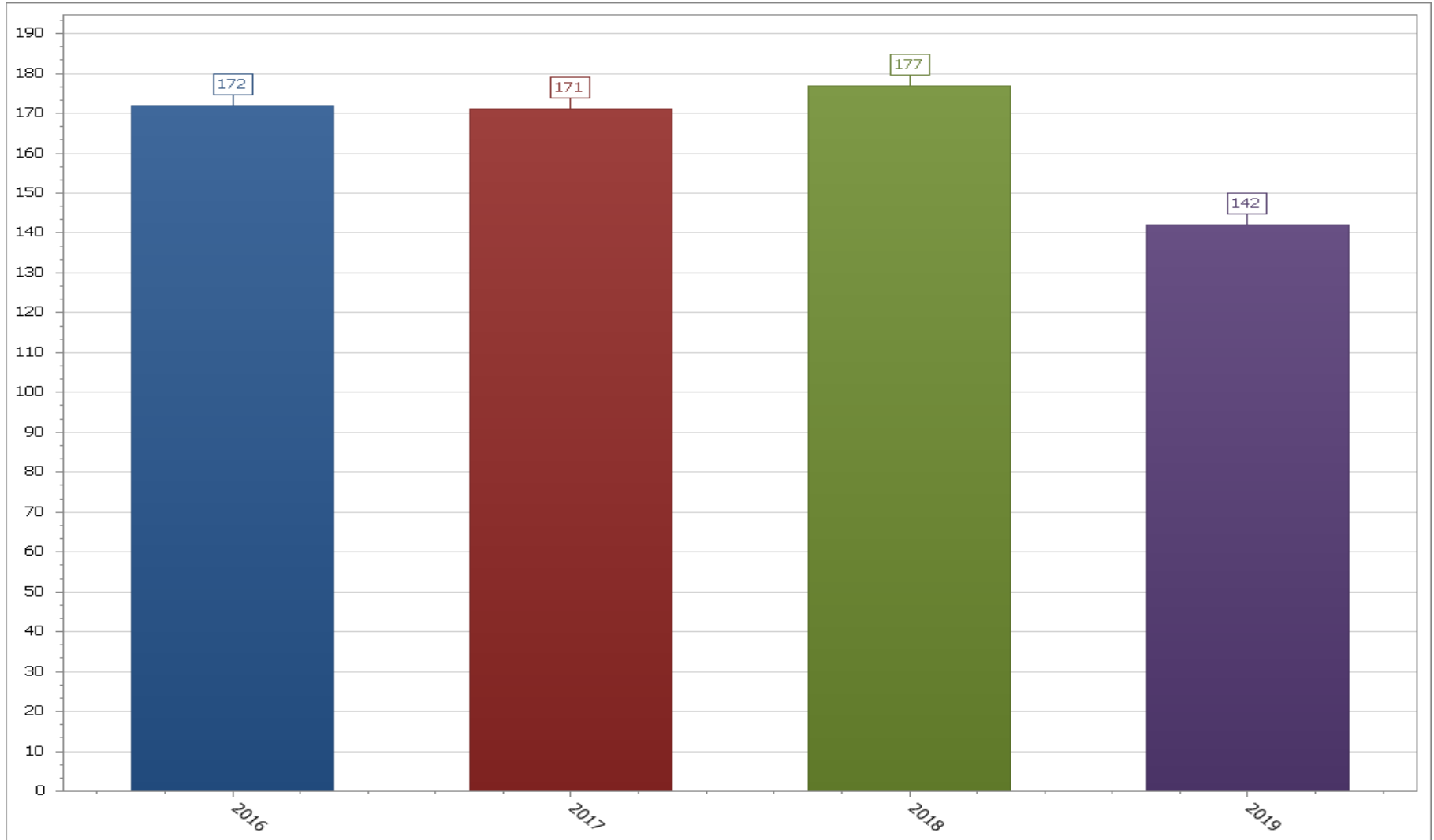
All Airworthiness Findings – By Year



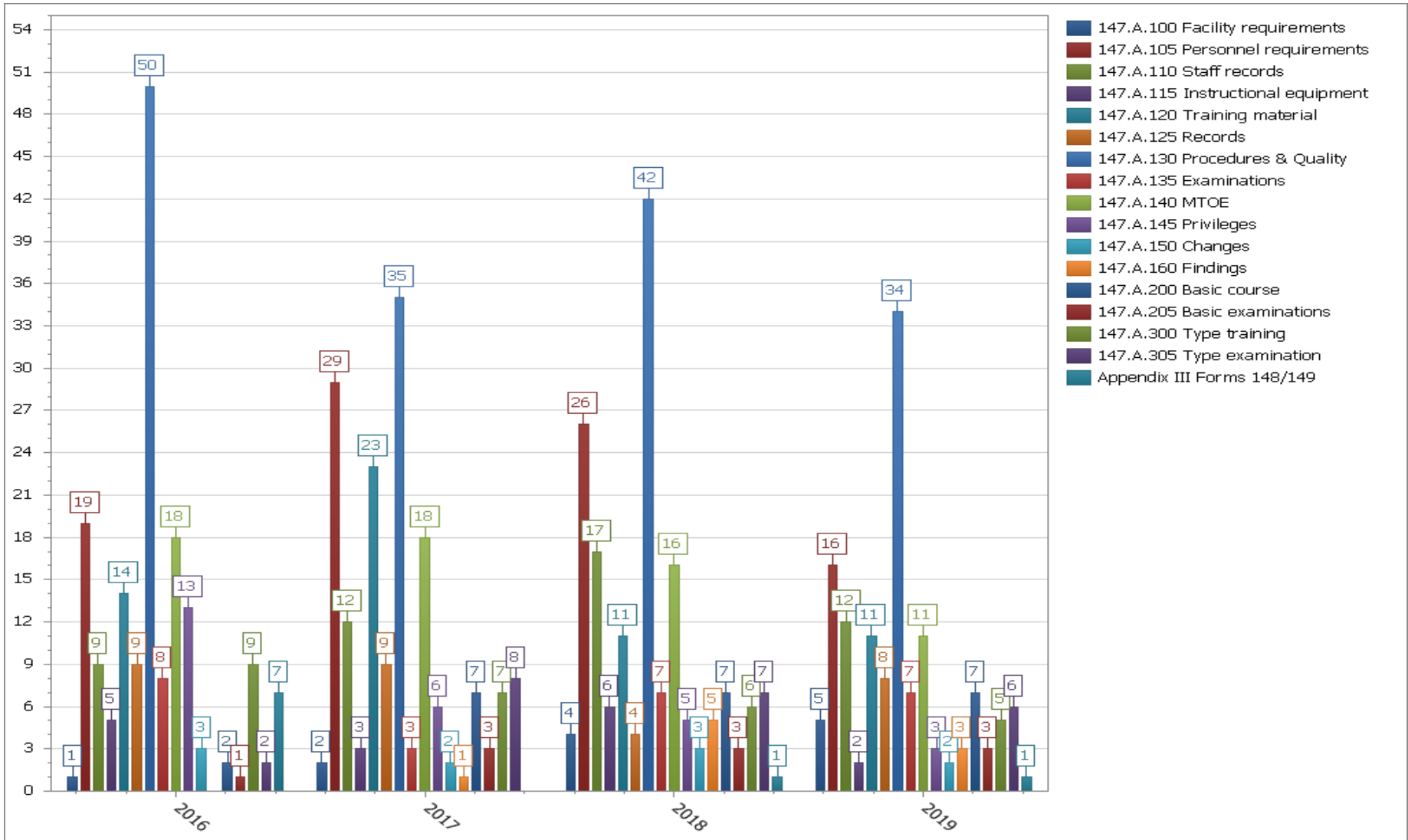
All Part 147 Findings



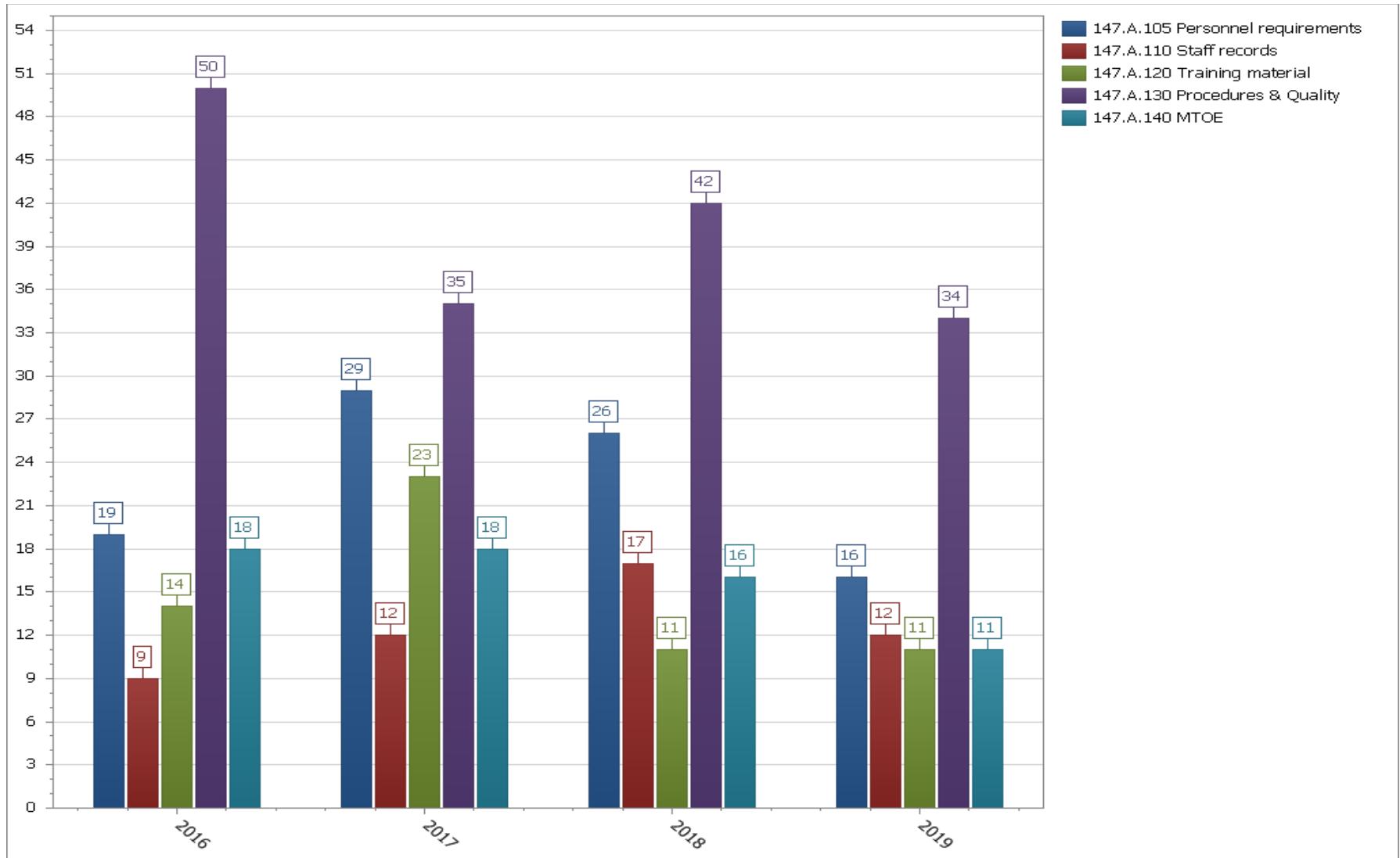
Part 147 Findings – by Year



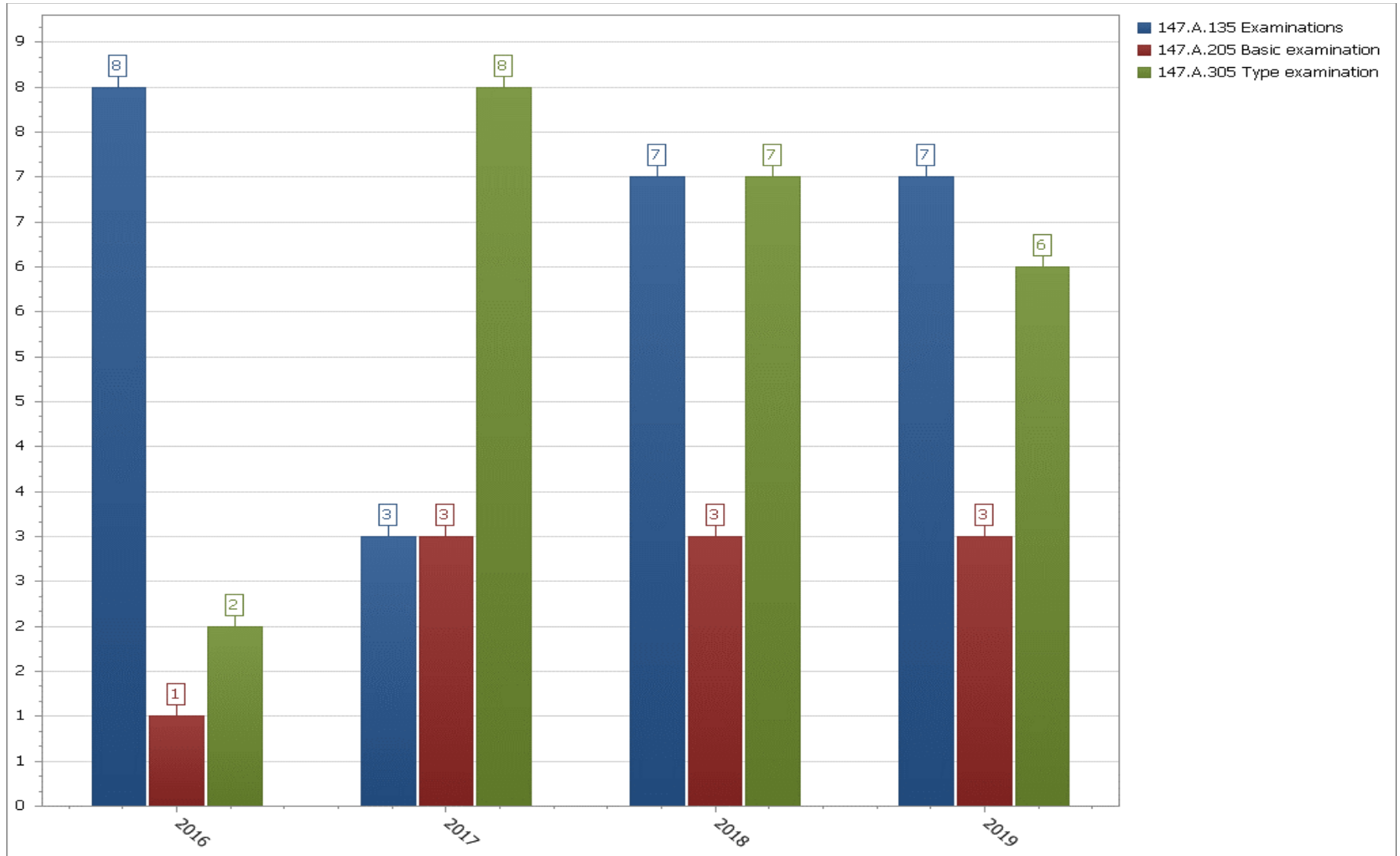
Part 147 Findings – Standard by Year



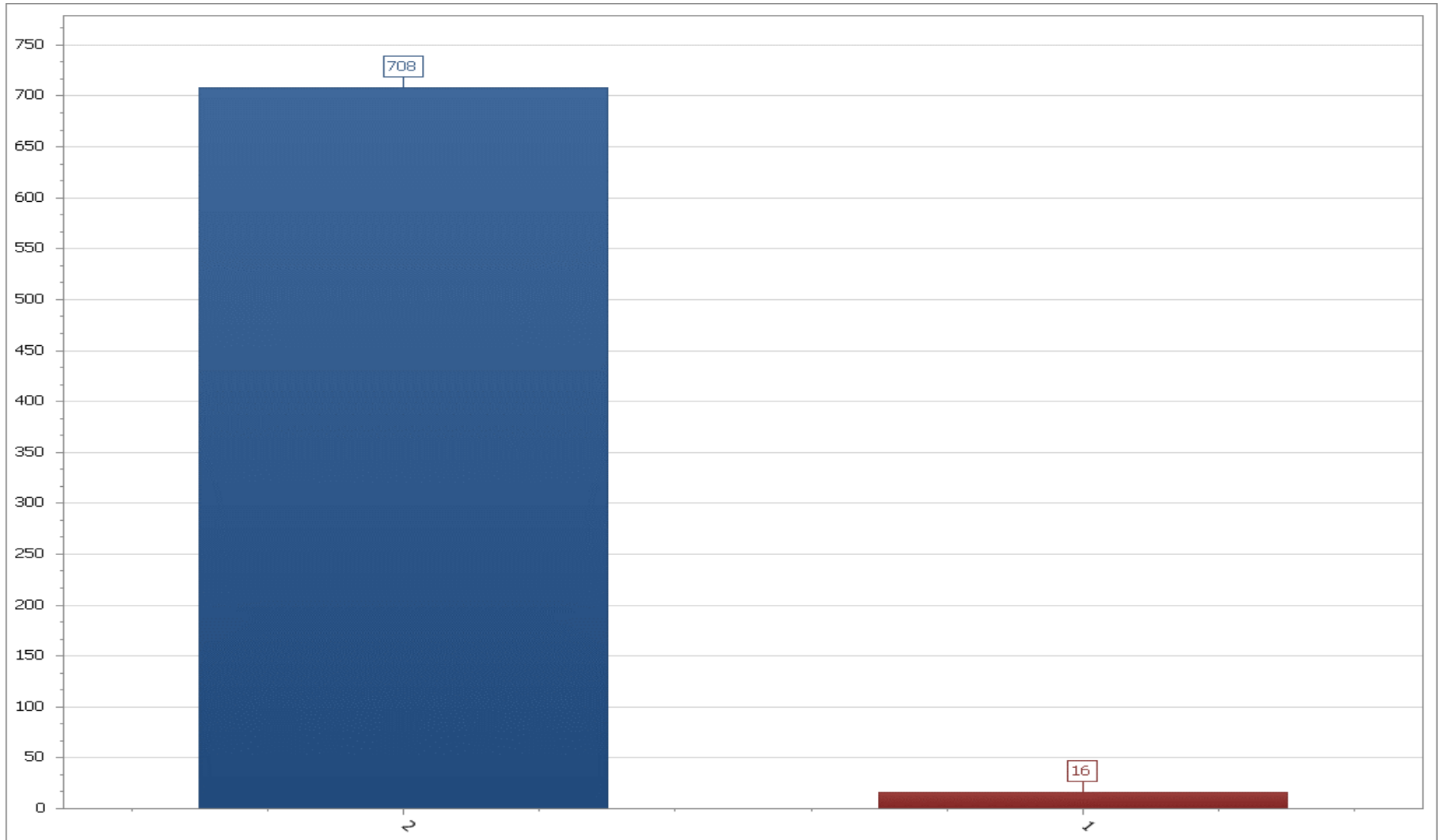
Part 147 Findings – Top 5 by Year



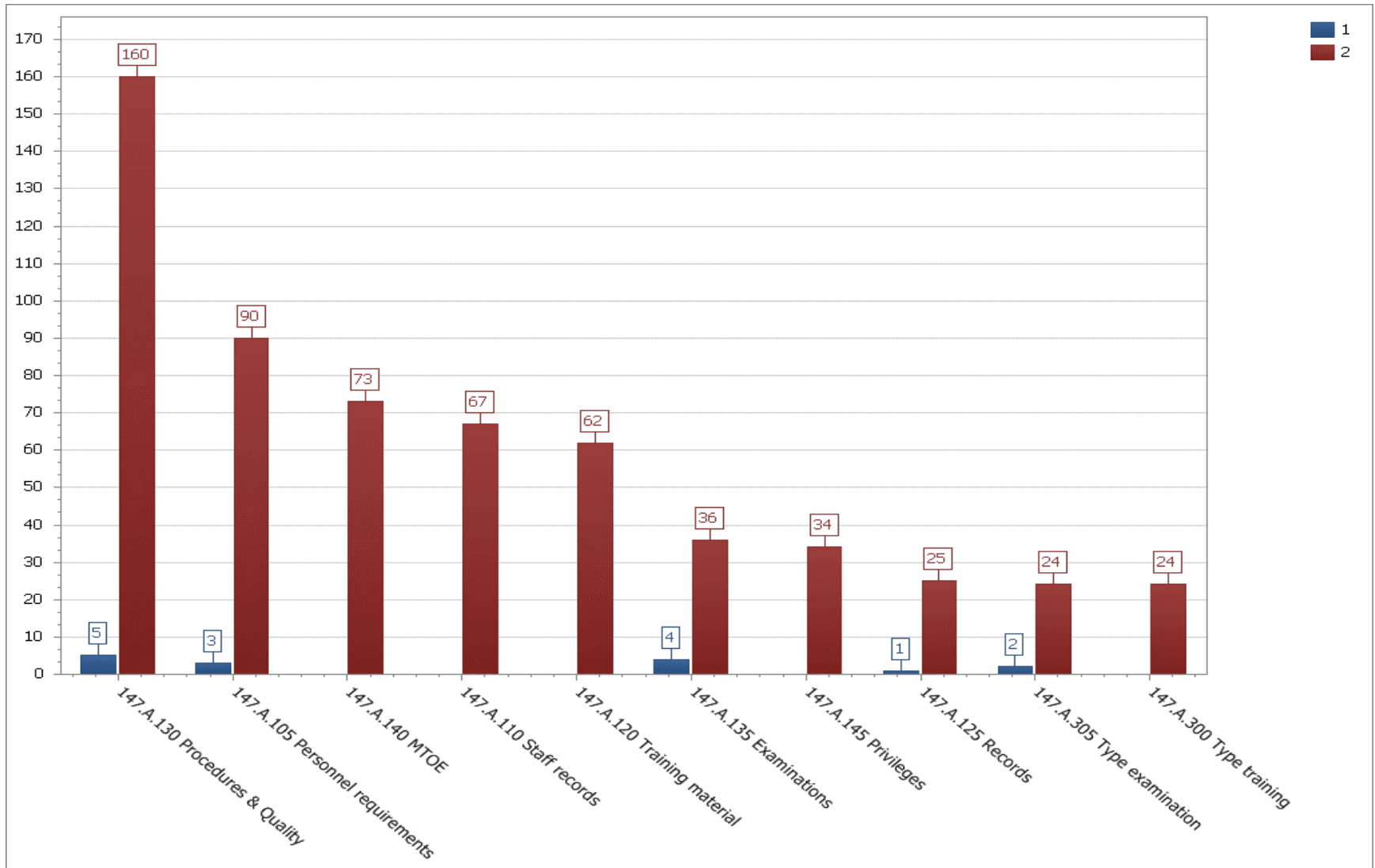
Part 147 Findings – Examinations by Year



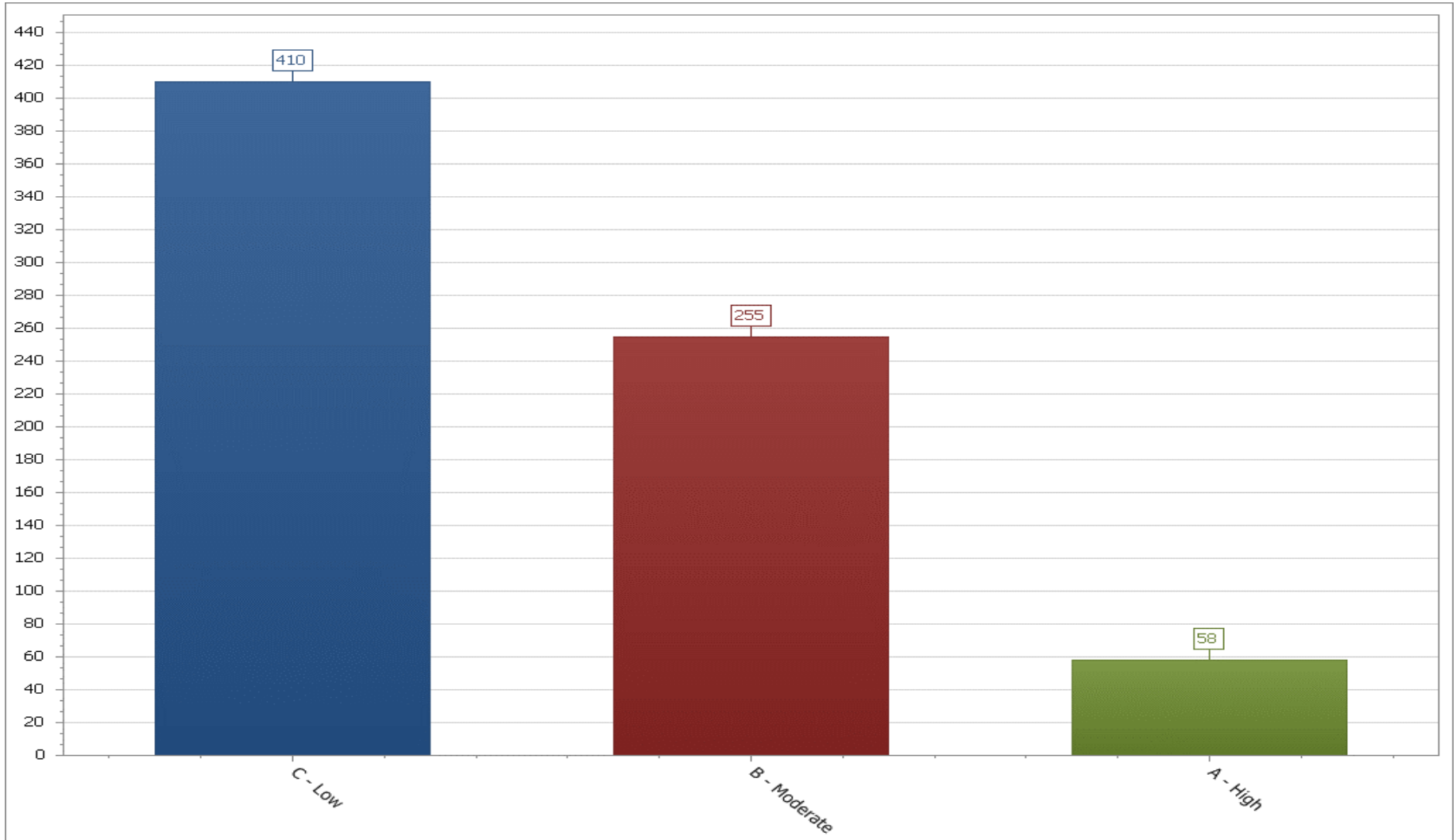
Part 147 Finding Levels



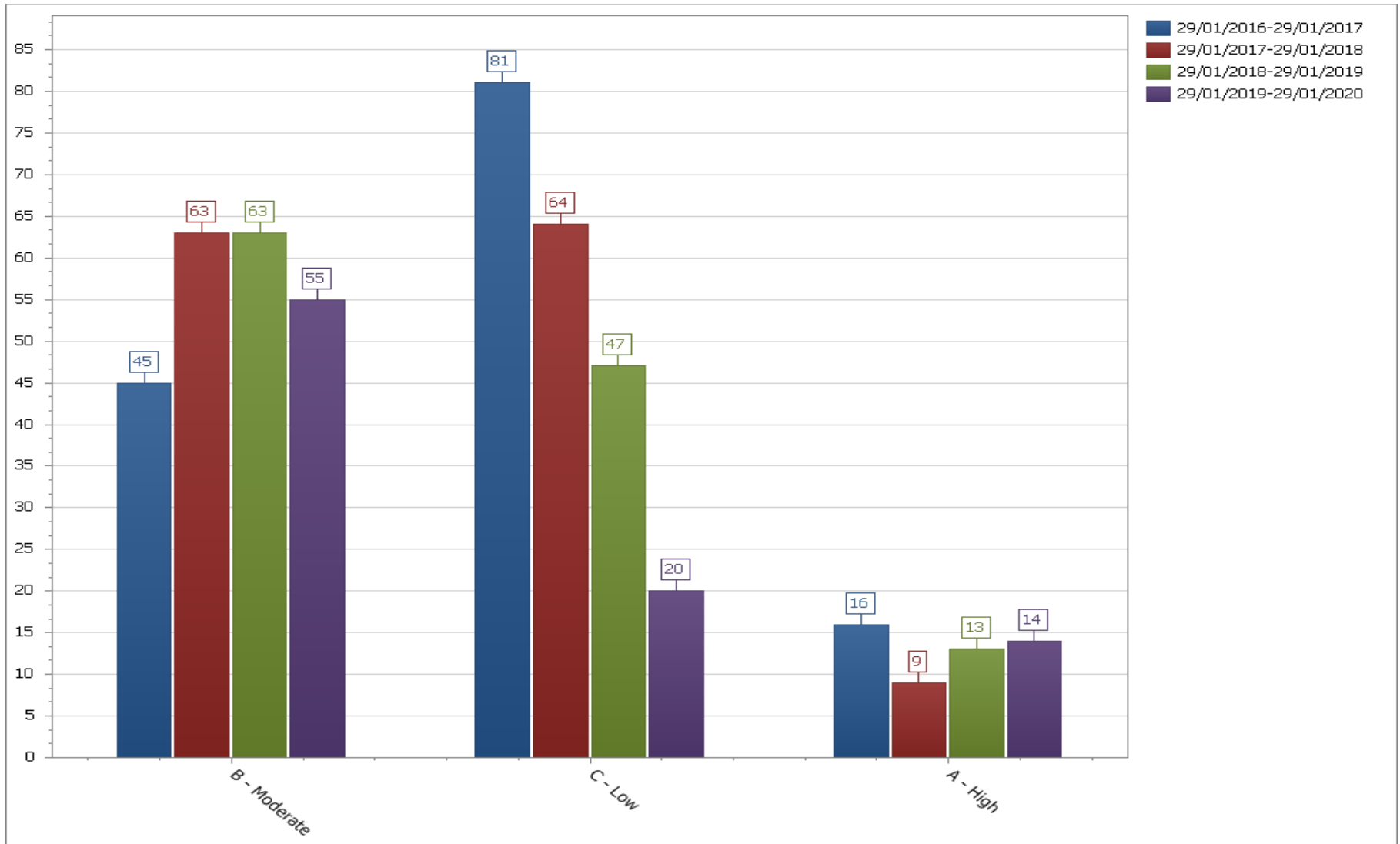
Part 147 Finding Levels by Standard



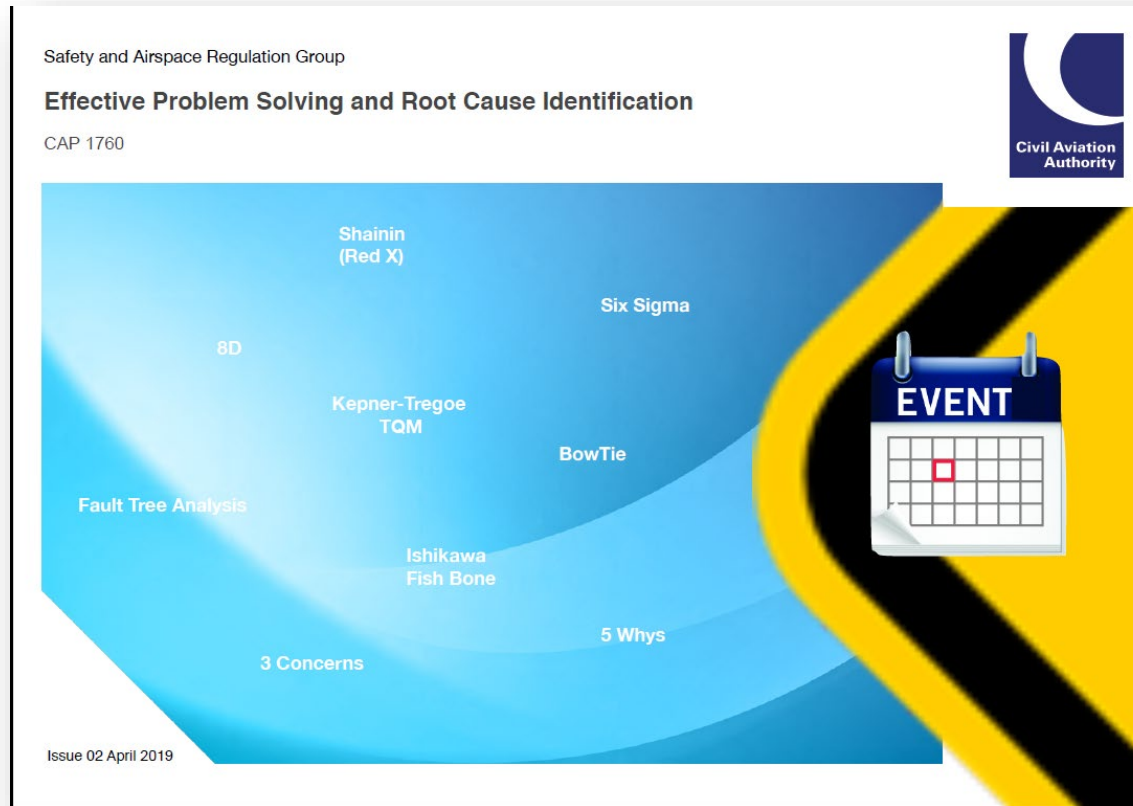
Part 147 Findings Safety Severity



Part 147 Findings Safety Severity by Year



Part 147 Root Cause Analysis



<https://www.caa.co.uk/Commercial-industry/Aircraft/Airworthiness/Approval-information-and-guidance/Root-cause-analysis/>

Findings Summary – Part 147



Examinations

Procedures & Quality system
(Not adhering to procedures and
Independent Quality Audit control)

Personnel
(Resources & Competency)

Exposition

Staff Records

Training Material

Thank You

