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Program Document CPBOK

PD 6103

CPBok-009/PL-2 REV. (N/A)

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BODY OF KNOWLEDGE:

ROLE DESCRIPTION: PAINT PLANNER
SPECIAL PROCESS: CHEMICAL PROCESSING
SCOPE: PAINT
METHOD: PAINTING AND APPLICATION OF DRY FILM LUBRICANT
LEVEL: PLANNER

All eQualified examinations are created using the applicable eQualified Body of Knowledge (BoK), which defines the baseline knowledge and experience required to be considered competent to perform the specified job role in aerospace special process manufacturing.

All eQualified BoKs are created by subject matter experts through an exhaustive job analysis process as detailed in the eQualified Program Document 6100: Industry Managed Special Process Bodies of Knowledge. All eQualified BoKs are updated periodically according to the requirements of the current eQualified PD6100 document to ensure they are consistent with current industry practice.

1. INTRODUCTION

This document has been created by the eQualified Chemical Processing Body of Knowledge Review Board (CPBoKRB) according to the requirements of eQualified Program Document PD6100 Industry Managed Special Process Bodies of Knowledge.

This document constitutes the eQualified BoK for Chemical Processing, Painting and Application of Dry Film Lubricants for the Planner Level. It defines the baseline knowledge and experience required to be considered competent to perform this role.

Unless otherwise stated, the CP BoK RB has followed guidelines as detailed in the current version of International Aerospace Quality Group (IAQG) Guidance PCAP 001 (Competence Management Guideline) to develop this BoK.

The information in this BoK will provide guidance for the following:

- Training providers who wish to develop training courses intended to support eQualified examination candidate preparation
- Chemical Processing Examination Review Board (CP-ERB) for the development of eQualified examinations
- Candidates taking eQualified examinations who wish to prepare in advance

2. REFERENCES

eQualified documents:

| | |
|--------|------------------------------------------------------|
| PD6000 | Governance & Administration of eQualified Program |
| PD6100 | Industry Managed Special Process Bodies of Knowledge |
| PD6200 | Industry Managed Special Process Examinations System |
| IAQG | International Aerospace Quality Group |

IAQG documents:

IAQG Guidance PCAP 001 Competence Management Guideline

3. DEFINITIONS

Definitions described within are specific to the Special Process BoK. For program-specific definitions, please refer to either the PD 6000 or the eQualified Dictionary.

BODY OF KNOWLEDGE (BoK): Baseline knowledge and experience required to be considered competent for a target position.

GENERAL EXAMINATION: The General Examination is designed to ascertain the candidate's general knowledge required for a particular job, role or activity. All of the questions will be derived from the corresponding BoK.

EXPERIENCE: The accumulation of knowledge or skill that results from direct participation in events or activities over a period of time.

KNOWLEDGE: Information / understanding acquired over a period of time. Information acquired through study and retained over that period of time (education, training, experience etc.) The combination of data and information, to which is added expert opinion, skills and experience, to result in a valuable asset which can be used to aid decision making and problem solving.

LEVEL: A class or division of a group based on education, training and experience. There are 3 levels: Operator, Planner and Owner. Please refer to the current version of PD 6000 for definitions

METHOD: A well-defined division of a SPECIAL PROCESS widely recognised by industry. A specific area of a special process for example anodizing within Chemical Processing

NON-SPECIAL PROCESS RELATED REQUIREMENTS: Miscellaneous requirements such as Health and Safety, Environmental, etc.

PERSONAL ATTRIBUTES: A quality or characteristic expected and required for a particular job, role or activity.

PRACTICAL EXAMINATION: The Practical Examination shall consist of a demonstration of proficiency in performing tasks that are typical of those to be accomplished in the performance of the candidate's duties. The examination content is derived from the corresponding BoK.

SKILL: Ability to perform a particular task. Skill is the quality of being able to do something that is acquired or developed through training or experience.

SPECIFIC EXAMINATION: The Specific Examination shall cover requirements and use of the specifications, codes, equipment, operating procedures and test techniques the candidate may use in the performance of his/her duties with the employer. Examination content will be derived from the corresponding BoK where applicable.

WEIGHTING: The "weighting" of each line item, using a scale of 1, 3, 7, 10, (1 being least important; 10 being most important) indicates the relative importance of that aspect of the BoK and will determine the likelihood and frequency of a question on that topic appearing in the examination

4. GUIDANCE TO EXAMINATION CANDIDATES

All eQualified examination candidates are recommended to read all documents referenced in section 2 of this document.

As stated in eQualified PD6200, every eQualified exam question shall relate directly to and be derived from the information as detailed in the current version of the BoK.

Re-assessment to this BoK is required every 5 years, unless otherwise specified.

Candidates are therefore advised to ensure familiarity with all aspects of the BoK as detailed in Table 1. This can be done through:

- Self-study
- Completion of internal training
- Completion of external training (a list of eQualified approved providers can be found at www.eQualified.com)

5. LEVELS

| Descriptors | Level | | |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Operator (OP) <i>Understand and perform the hands-on operations of the special process for which qualification is sought.</i> | Planner (PL) <i>Capable of selecting manufacturing processes and interpreting process procedures to conform to customer specification and requirements.</i> <i>Capable of problem solving and resolving day to day issues.</i> | Owner (OW) <i>Capable of writing, reviewing and approving processes, procedures and qualifications of Operators and Planners. Capable of designing new processes and resolving issues among other levels.</i> |
| Paint Process Specific Criteria | No additional criteria for the Painting process. | No additional criteria for the Painting process. | No additional criteria for the Painting process. |
| Technical Knowledge | Basic knowledge of the Painting process and application of Dry Film Lubricants, its main processes, methods and tools. | Good level of knowledge in all aspects of the Painting process and application of Dry Film Lubricants, all its processes, methods and tools. Ability to coach others on contents and methods in the context of their workplace. | High or extensive knowledge in all aspects of the Painting process and application of Dry Film Lubricants, all its processes, methods and tools to assess and validate improvements. Able to contribute to set externally recognized standards. Ability to define contents and methods for using knowledge effectively in influencing and developing international processes. Ability to influence the process with one's knowledge. |
| Experience | Sufficient experience to deal with recurrent activity. | Has enough experience to deal with unforeseen issues. | Wide proven experience of the subject. Is recognized as a specialist within the special process. |
| Personal Attributes | Takes into consideration behavioral characteristics such as but not limited to: team working, communication, direction and purpose, innovation and problem solving, mutual trust and respect, confidentiality and trustworthiness. | | |
| Skills | Describes the activities necessary to perform each level of job function to comply with the Body of Knowledge | | |
| Non-Special Process Related Requirements | Health & Safety, Environmental, Quality System Requirements. | | |

Special Process Bodies of Knowledge Review Boards must complete Table 1 to form the BoK

TABLE 1

ROLE DESCRIPTION: Painting Planner

SPECIAL PROCESS: Chemical Processing

SCOPE / METHOD: Painting and Application of Dry Film Lubricant

REFERENCE GUIDELINES: Addendum 1 is a list of the International Standards applicable to Painting processes.

| Row # | COMPETENCE | Level (e.g. OP, PL, OW, T1) | Weight (1,3,7,10) | Exam Type Gen/Specific /Practical | Reference Guidelines |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------|-----------------------------------------|-------------------------|
| | KNOWLEDGE: The basic knowledge of the special processes, methods and tools | | | | |
| | GENERAL KNOWLEDGE: | | | | |
| 1. | Understand how to determine if there has been damage to the part surface. | PL | 10 | GEN | AC 7108: 4.4 |
| 2. | Full and complete understanding of Internal Work instructions | PL | 10 | GEN | AC 7108: 3.3.2 |
| 3. | Know how to access customer specifications and requirements (i.e. where to find them). | PL | 7 | GEN | AC 7108: 3.2 |
| 4. | Understand how to interpret customer specification and requirements in the context of performing the Paint process. | PL | 3 | GEN | General Industry |
| 5. | Understand Industry Standards | PL | 7 | GEN | |
| 6. | Knowledge and understanding of the Accept/Reject Criteria for Paint / Dry Film, including thickness, adhesion and cure | PL | 7 | GEN | AC 7108: 4.4 |
| 7. | Knowledge of the Surface Preparation procedures | PL | 7 | GEN | General Industry |
| 8. | Have an awareness of the basic control and calibration requirements for equipment. | PL | 10 | GEN | General Industry |
| 9. | Know how to perform any cleanliness requirements for paint booth | PL | 10 | GEN | AC 7108/1: 3.2 |
| 10. | Knowledge and understanding of mathematics, including decimal and fractions | PL | 7 | GEN | General Industry |
| 11. | Know how to use precision measuring instruments and equipment | PL | 10 | GEN | General Industry |
| 12. | Know and understand Job Documentation including awareness of Fixed and Frozen Process requirements. | PL | 10 | GEN | General Industry |
| 13. | Know and understand the significance of delays between Surface Preparation and Painting operations. | PL | 10 | GEN | AC 7108/1: 3.4 |
| 14. | Have an awareness of Surface Preparation prior to Painting including General Cleaning, Mechanical Cleaning and Chemical Cleaning prior to Painting. | PL | 7 | GEN | AC 7108: 3.8, 5.6 – 5.8 |
| 15. | Know and understand the importance of cleanliness of the work area. | PL | 10 | GEN | General Industry |
| 16. | Understand the importance of temperature control for paint storage and the need for the paint to be at the correct temperature before mixing or spraying. | PL | 10 | GEN | General Industry |
| 17. | Know and understand how to mix, measure viscosity of paints and proper use of Zahn cups. | PL | 10 | GEN | AC 7108:3.8 |
| 18. | Know and understand how paint is cured and how to adjust the curing condition to match the paint. | PL | 10 | GEN | General Industry |
| 19. | Know and understand key paint Test Procedures such as airline cleanliness, visual, thickness, adhesion & cure etc. | PL | 10 | GEN | General Industry |
| 20. | Know and understand the importance of Part Set-Up and Masking. Especially matching masking materials to curing conditions and the need to remove inappropriate material and residues before curing. | PL | 10 | GEN | General Industry |
| 21. | Knowledge and understand about the selection of appropriate equipment for use in the Painting process. | PL | 10 | GEN | General Industry |
| 22. | Understand the need for pre-process checks (such as calibration status and environmental conditions). | PL | 10 | GEN | AC 7108: 3.10 |
| 23. | Understand the mechanics and importance of allowing carriers (Solvent and Water) to Flash Off between coats and before curing, | PL | 10 | GEN | General Industry |
| 24. | Thoroughly understand the Painting process and an awareness of the different types of paints. | PL | 10 | GEN | General Industry |
| 25. | Have an awareness of the effects on painting of various pre-treatments such as blasting, chemical conversion coating anodizing, previous painting etc. on the paint application process. | PL | 7 | GEN | General Industry |
| 26. | Have an awareness of the Curing including Infrared and Thermal Curing, and the potential impact of the curing cycle on temperature sensitive substrates such as composites and some aluminum alloys, | PL | 7 | GEN | General Industry |

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| 27. | Have an awareness of the significance of temperature and humidity on painting and curing. | PL | 10 | GEN | AC7108/1: 3.20 |
| 28. | Understand the importance and the need for keeping paint records. | PL | 10 | GEN | AC7108/1: 3.11, 3-13, 3.14, 3.15 |
| 29. | Knowledge and ability to write and review internal procedures and practices. | PL | 7 | GEN | General Industry |
| 30. | Know how to recognize unsafe and/or inappropriate work practices. | PL | 10 | GEN | General Industry |
| 31. | Understand how to deal with incorrect or inappropriate Painting. | PL | 10 | GEN | General Industry |
| 32. | Know and understand how to review and take action on Paint test result data. | PL | 10 | GEN | General Industry |
| 33. | General knowledge and understanding of all the Painting processes including the general concepts of color and gloss. | PL | 7 | GEN | General Industry |
| | ONE PACK PAINTING (paints that can be used as supplied or with addition of a thinner only) | | | | |
| 34. | Know uses, features and applications for this type of Paint. | PL | 7 | GEN | General Industry |
| 35. | Understand the limitations for this type of Paint. | PL | 7 | GEN | General Industry |
| 36. | Understand the Technical Data Sheets for this type of Paint. | PL | 10 | GEN | General Industry |
| 37. | Understand the mixing requirements for this type of Paint | PL | 10 | GEN | General Industry |
| 38. | Understand the curing requirements for this type of Paint | PL | 10 | GEN | General Industry |
| 39. | Understand the application requirements for this type of Paint | PL | 10 | GEN | General Industry |
| 40. | Have an awareness of the potential impact of high curing cycles on temperature sensitive substrates. | PL | 7 | GEN | General Industry |
| 41. | Have an awareness of the environmental, worker safety and health concerns associated with this type of Paint. | PL | 7 | GEN | General Industry |
| | MULTI-PACK PAINTING (Paints made by mixing two or more constituents such as base & hardening or curing agents) | | | | |
| 42. | Know uses, features and applications for this type of Paint. | PL | 7 | GEN | General Industry |
| 43. | Have an awareness of the limitations for this type of Paint. | PL | 7 | GEN | General Industry |
| 44. | Understand the Technical Data Sheets for this type of Paint. | PL | 10 | GEN | General Industry |
| 45. | Understand the mixing requirements for this type of Paint including the pigmented constituent and using the correct ratios | PL | 10 | GEN | General Industry |
| 46. | Understand the curing requirements for this type of Paint | PL | 10 | GEN | General Industry |
| 47. | Understand the application requirements for this type of Paint | PL | 10 | GEN | General Industry |
| 48. | Understand the significance of Multipack paints including induction times, pot life and using the correct components. | PL | 10 | GEN | General Industry |
| 49. | Knowledge of the difference between Manufacture's shelf life and Open Tin shelf life. | PL | 10 | GEN | General Industry |
| 50. | Understand the environmental, worker safety and health concerns associated with this type of Paint. | PL | 7 | GEN | General Industry |
| | PRIMER APPLICATION | | | | |
| 51. | Know the uses, features and applications for this type of paint. | PL | 7 | GEN | General Industry |
| 52. | Know and understand the limitations for this type of Paint. | PL | 7 | GEN | General Industry |
| 53. | Know and understand the difference between primer types such as bond primers, wash primers and normal primers and the differences in their storage, mixing and application. | PL | 7 | GEN | General Industry |
| 54. | Understand the need for and reactivation of old primed substrates | PL | 10 | GEN | General Industry |
| 55. | Understand the mixing requirements for this type of Paint including the pigmented constituent and using the correct ratios | PL | 10 | GEN | General Industry |
| 56. | Understand the curing requirements for this type of Paint | PL | 10 | GEN | General Industry |
| 57. | Understand the application requirements for this type of Paint | PL | 10 | GEN | General Industry |
| 58. | Have an awareness of the environmental, worker safety and health concerns associated with these types of Paint. | PL | 7 | GEN | General Industry |
| | TOP COAT PAINT APPLICATION | | | | |
| 59. | Have an awareness of uses, features and applications for this type of Paint. | PL | 7 | GEN | General Industry |

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| 60. | Know and understand the limitations for this type of Paint. | PL | 7 | GEN | General Industry |
| 61. | Understand the need for and reactivation of old primed substrates | PL | 10 | GEN | General Industry |
| 62. | Have an awareness of the need to know paint thickness of primer in order to measure that of the Topcoat. | PL | 10 | GEN | General Industry |
| 63. | Know and understand the impact of spraying and curing conditions on the final appearance of Topcoat Paints. | PL | 10 | GEN | General Industry |
| 64. | Have an awareness of the importance of color and gloss to topcoat painting. | PL | 7 | GEN | General Industry |
| 65. | Understand the mixing requirements for this type of Paint including the pigmented constituent and using the correct catalysts and mixing ratios | PL | 10 | GEN | General Industry |
| 66. | Understand the curing requirements for this type of Paint | PL | 10 | GEN | General Industry |
| 67. | Understand the application requirements for this type of Paint | PL | 10 | GEN | General Industry |
| 68. | Have an awareness of the environmental, worker safety and health concerns associated with these types of Paint. | PL | 7 | GEN | General Industry |
| DRY FILM LUBRICANT APPLICATION | | | | | |
| 69. | Have an awareness of uses, features and applications for this type of Coating | PL | 7 | GEN | General Industry |
| 70. | Have an awareness of the limitations for this type of Coating. | PL | 7 | GEN | General Industry |
| 71. | Understand the build-up of thicker films. | PL | 10 | GEN | General Industry |
| 72. | Understand the mixing requirements for this type of Coating | PL | 10 | GEN | General Industry |
| 73. | Understand the curing requirements for this type of Coating | PL | 10 | GEN | General Industry |
| 74. | Understand the application requirements for this type of Coating | PL | 10 | GEN | General Industry |
| 75. | Have an awareness of the local regulations, environmental, worker safety and health concerns associated with these types of Coating | PL | 7 | GEN | General Industry |
| 76. | Knowledge of proper cleaning of paint guns, hoses and other equipment. | PL | | GEN | General Industry |
| 77. | Knowledge of proper painting techniques: Spray Application; Mixing of bases and curing solutions for primers and paints; Measuring of paint viscosity; Water-break free testing; Identification of improper and/or unacceptable finish application | PL | | GEN | General Industry |
| 78. | Knowledge and ability to perform thickness and dry/wet tape adhesion tests. | PL | | GEN | General Industry |
| 79. | Knowledge and ability to prepare composite surfaces for paint application. | PL | | GEN | General Industry |
| 80. | Knowledge of temperature limitations for accelerated cures. | PL | | GEN | General Industry |
| 81. | Knowledge of paint stripping and removal for rework purposes. | PL | | GEN | General Industry |
| 82. | Knowledge in monitoring pot life, storage life and work life of paints, primers and accelerators. | PL | | GEN | General Industry |
| SKILLS: | | | | | |
| Defined within these rolls describes the range of skills. The skills required to perform a particular special process task | | | | | |
| 83. | READ AND UNDERSTAND WRITTEN INSTRUCTIONS: | PL | 10 | GEN | General Industry |
| 84. | Ability to understand specification requirements and customer flow-down requirements | PL | 10 | GEN | General Industry |
| 85. | Apply Painting techniques appropriately | PL | 10 | GEN | General Industry |
| 86. | Verify and validate the Painted results. | PL | 10 | GEN | General Industry |
| 87. | Properly report non-conformances | PL | 10 | GEN | General Industry |
| 88. | Apply technical knowledge in a skillful way when solving problems | PL | 7 | GEN | General Industry |
| 89. | Be familiar with the scope and limitations of Painting. | PL | 7 | GEN | General Industry |
| 90. | Use of appropriate equipment for the Painting process. | PL | 10 | GEN | General Industry |
| 91. | Ability to follow instructions | PL | 10 | GEN | General Industry |
| 92. | Ability to write Work Instructions and Procedures | PL | 7 | GEN | General Industry |
| 93. | Interpretation of an acceptable Painting process | PL | 7 | GEN | General |

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| | | | | | Industry |
| 94. | Must be able to read drawings and specifications | PL | 10 | GEN | General Industry |
| 95. | Must be able to interpret specification requirements | PL | 10 | GEN | General Industry |
| 96. | Must be able to set-up operations (equipment e.g., gravity fed guns, viscosity, timers & temperatures) including alternate procedures as appropriate | PL | 7 | GEN | General Industry |
| 97. | Must be able to understand and interpret shop travelers | PL | 10 | GEN | General Industry |
| 98. | Ability to identify training needs and coordinate the training | PL | 7 | GEN | General Industry |
| 99. | Be able to identify strengths and weaknesses in the personnel involved in the painting activity | PL | 3 | GEN | General Industry |
| Sequencing | | | | | |
| 100. | Has an appropriate understanding of where this process falls in the sequence of events. | | | | |
| PERSONAL ATTRIBUTES: Are statements that will enable judgment of the person's personal attributes | | | | | |
| 101. | Be able to work independently with a minimum of supervision | PL | 10 | GEN | General Industry |
| 102. | Must have a high degree of integrity | PL | 10 | GEN | General Industry |
| 103. | Be attentive to details | PL | 10 | GEN | General Industry |
| 104. | Be flexible | PL | 7 | GEN | General Industry |
| 105. | Tolerate stress | PL | 7 | GEN | General Industry |
| 106. | Exhibit conflict resolution | PL | 7 | GEN | General Industry |
| 107. | Decision making ability | PL | 10 | GEN | General Industry |
| 108. | Team Worker | PL | 10 | GEN | General Industry |
| 109. | Ethical Behavior | PL | 10 | GEN | General Industry |
| 110. | Exhibit Leadership | PL | 7 | GEN | General Industry |
| EXPERIENCE: Are the minimum experience requirement expected to demonstrate their competence. | | | | | |
| EDUCATION: | | | | | |
| 111. | High School Diploma or GED or Secondary Education | PL | 10 | GEN | General Industry |
| 112. | Apprenticeship | | 3 | GEN | General Industry |
| 113. | Industry Training or Courses | PL | 3 | GEN | General Industry |
| 114. | TRAINING / HANDS-ON-EXPERIENCE: | PL | 10 | GEN | General Industry |
| Complete on the job training: Minimum number of hours- | | | | | |
| OPERATOR – 160 Hours | | | | | |
| 115. | PLANNER – 160 Hours | PL | 10 | GEN | General Industry |
| OWNER - | | | | | |
| NON-SPECIAL PROCESS RELATED REQUIREMENTS: Defined within these rolls are other general or pre-requisite needed | | | | | |
| 116. | Capability to lift up to 30 lbs. (e.g. up to 14 kg) | PL | 7 | GEN | General Industry |
| 117. | Able to deal with repetitive bending and stooping | PL | 7 | GEN | General Industry |
| 118. | General understand of Quality Systems AS/EN/JISQ 9100, or AC 7004, or equivalent | PL | 7 | GEN | General Industry |
| SAFETY & ENVIRONMENTAL REQUIREMENTS: | | | | | |
| 119. | Knowledge and understanding of safety, and handling and disposal of hazardous materials, paints, etc. including safe storage, interpretation of Health & Safety Data Sheets and Regulatory Requirements. | PL | 10 | GEN | General Industry |
| 120. | Understand Safety Data Sheets (SDS) and Personal Protective Equipment Requirements: When and how to use appropriate personal protective equipment (masks, respirators, gloves, aprons, etc.) | PL | 10 | GEN | General Industry |
| 121. | Ability to prepare and administer appropriate safety and environmental | PL | 10 | GEN | General |

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| | procedures and controls. | | | | Industry |
| 122. | Understand which personal protective equipment to use, when and why | PL | 10 | GEN | General Industry |
| 123. | Understand the safe storage, shelf life and mixing of paints, solvents and chemicals | PL | 10 | GEN | General Industry |
| 124. | Ability to recognize symbols associated with paint related products and their usage | PL | 10 | GEN | General Industry |

ADDENDUM 1

LIST OF INTERNATIONAL STANDARDS FOR (SPECIAL PROCESS)

| SPECIAL PROCESS | DOCUMENT TITLE | DOCUMENT NUMBER |
|---------------------------|---------------------------------------------------------------------------------------|-----------------|
| Chemical Process | Standard Terminology for Paint, Related Coatings, Materials, and Applications | ASTM D16 |
| Chemical Process | Standard Test Methods for Measuring Adhesion by "Tape Test" | ASTM D3359 |
| Chemical Process | Standard Test Method for Measurement of Dry Film Thickness | ASTM-D-5796 |
| Chemical Process/Paint | Standard Practice for Thickness of Paint | ASTM-D-8023 |
| Chemical Process | Coating, Wash primer (Pretreatment) for metals, Application of (for Aeronautical Use) | MIL-C-8507 |
| Chemical Process | Finishes, Organic, Weapons Systems, Application and Control of | MIL-DTL-18264 |
| Chemical Process/Paint | Paint, Epoxy-Polyamide General Specification for | MIL-DTL-24441D |
| Chemical Process/Finishes | Organic Weapons Systems, Application and Control of | MIL-F-18264 |
| Chemical Process/Primer | Primer Coating, Epoxy – Polyamide Chemical & Solvent Resistance | MIL-P-23377 |
| Chemical Process/Primer | Primer Coating, Epoxy – Polyamide Chemical & Solvent Resistance | MIL-PRF-23377 |