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# **Program Document CPBOK**

#### PD 6103

# CPBoK-004/OW-3 Rev. A

Issued:

05-MAY-14

Revised:

06-MAR-17

Superseding:

05-MAY-14

#### **BODY OF KNOWLEDGE:**

**ROLE DESCRIPTION:** ETCH and ETCH INSPECTOR OWNER

**SPECIAL PROCESS:** Chemical Processing

METHOD:

Nital, Temper, Blue Etch Anodize, Electrolytic (Anodic), Macrostructure,

Pre-Penetrant

All PRI Qualification<sup>SM</sup> program examinations are created using the applicable PRI Qualification<sup>SM</sup> program 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 BoKs are created by subject matter experts who participate in the PRI Qualification<sup>SM</sup> Body of Knowledge Review Boards. All BoKs are updated periodically according to the latest revision of PRI Qualification<sup>SM</sup> program documentation (PD6100: Industry Managed Special Process Bodies of Knowledge) to ensure consistency with current industry practice.

#### INTRODUCTION 1.

This document has been created by the PRI Qualification Program Chemical Processing Body of Knowledge Review Board (CP BoKRB) according to the requirements of PD6100.

This document consitutes the PRI Qualification<sup>SM</sup> program BoK for Chemical Processing Etch Inspection / Nital, Temper, Blue Etch Anodize, Electrolytic (Anodic), Macrostructure and Pre-Penetrant Etch, Owner level. It defines the baseline knowledge and experience required to be considered competent to perform this role.

Unless otherwise stated, the CP BoKRB has followed guidelines as detailed in the current revision 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 PRI Qualification<sup>SM</sup> program examination candidate preparation
- Chemical Processing Examination Review Board (CP-ERB) for the development of PRI Qualification<sup>SM</sup> program examinations
- Candidates taking PRI Qualification<sup>SM</sup> program examinations who wish to prepare in advance

PD 6103 Template Issue date: 04Feb13 PD 6103 Template Revised: 29Apr16

#### 2. REFERENCES

PRI Qualification<sup>SM</sup> program documents:

PD6000 Governance & Administration of PRI Qualification<sup>SM</sup> Program
PD6100 Industry Managed Special Process Bodies of Knowledge
PD6200 Industry Managed Special Process Examinations System

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 PRI Qualification<sup>SM</sup> 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/Technician, Planner and Owner. Please refer to the current revision of PD 6000 for definitions of these levels.

METHOD: A well-defined division of a SPECIAL PROCESS widely recognized 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. 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 PRI Qualification<sup>SM</sup> program examination candidates are recommended to read all documents referenced in section 2 of this document.

As stated in PRI Qualification<sup>SM</sup> program documents PD6200, every exam question shall relate directly to and be derived from the information as detailed in the current revision of the BoK.

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

**NOTE:** Industry Standards require various intervals of reassessment (3-5 years)

- Per MIL-STD-867C re-cert shall not exceed 3 years
- Physical tests (eye exam) are required annually
- However, ARP1923 states at qualification and each year thereafter, inspection personnel shall pass physical, written and practical examinations.

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 Approved Training Providers can be found at <a href="https://p-r-i.org/">https://p-r-i.org/</a>)

Records of all qualified personnel (per MIL-STD-867C) shall be maintained and include:

- · Date of Qualification
- Results of Physical (as required)
- Results of Written Exam
- Results of Practical Exam (if applicable)
- Summary of Experience

## 5. LEVELS

	Level				
Descriptors	Operator (OP) / Technician (T)	Planner (PL)	Owner (OW)		
	For descriptions, please refer to current version of PD6000	For descriptions, please refer to current version of PD6000	For descriptions, please refer to current version of PD6000		
Etch Inspection Specific Criteria	N/A	N/A	N/A		
Technical Knowledge	Basic knowledge of the special process, its main processes, methods and tools.	Good level of knowledge in all aspects of the special process, 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 special process, 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 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,	h & Safety, Environmental, Quality System Requirements.			

#### 6. TABLE 1

ROLE DESCRIPTION: ETCH INSPECTOR OWNER SPECIAL PROCESS: CHEMICAL PROCESSING

METHOD: ETCH INSPECTION / Nital, Temper, Blue Etch Anodize, Electrolytic (Anodic), Macrostructure, Pre-

Penetrant

REFERENCE GUIDELINES: Addendum 1 is a list of the International Standards and Reference Documents

applicable to Etch and Etch Inspection

Row #	COMPETENCE	Weight (1,3,7,10)	Exam Type Written / Practical	Reference Guidelines
	KNOWLEDGE: The basic knowledge of the special processes, methods and tools			
1	GENERAL KNOWLEDGE:			
2	Understand how to perform the inspection necessary to detect any damage that may have been caused	10	w	General Industry; AC7108/2: 3.1.1.6.1, 4.4.2, A.5
3	Full and complete understanding of Internal Work Instructions	10	W	General Industry; AC7108/2: 3.1, 4.4
4	Knowledge how to access customer specifications and requirements (i.e. where to find them).	10	w	General Industry; AC 7108/2:4.4.3, A7.1.1.1, A7.1.1.3, A71.1.4, A7.1.1.5, A71.1.2
5	Understand how to interpret customer specifications and requirements in the context of the inspection carried out	10	w	General Industry: AC 7108/2: 4.4.3, A7.1.1.1, A7.1.1.3, A7.1.1.4., A7.1.1.5, A7.1.1.2
6	Understanding of Industry Standards	10	w	Addendum 1 (all documents); General Industry: AC 7108/2:4.4
7	Knowledge and understanding of the Accept/Reject Criteria	10	w	General Industry; AC7108/2:3.1.1.6.9, A5, 7.1.2.5.3, A7,1.4
8	Knowledge of Surface Preparation procedures	10	W	AC7108/2 :3.1.1.6.2,3.1.1.6.7, 4.6, 4.7, A1
9	Knowledge and Understanding of the Post Bake Requirements and other Post Inspection operation/procedures	10	W	MIL-STD-867; AC 7108/2: 4.9, 4.10, A6, A7.2.2.7, A7.2.4
10	Basic understanding of control and calibration requirements of Post Bake Ovens	7	W	AC 7108/2: AC 7108/2: 4.9, 4.10, A6, A7.2.2.7,A7.2.4
11	Water Break Free Cleanliness Verification	10		Addendum 1 List of Standards: AC7108/2: 3.1.1.6.5, A1.3, B1.2, C1.3, D1.3
12	Knowledge and understanding in mathematics, including decimals and fractions	10	W	General Industry; AC 7108/2: 3.1, 3.1.1.2
13	Use of precision measuring instruments and equipment.	10	w	General Industry; AC 7108/2: AC 7108/2: 3.101, 4.8, 4.9, 4.10, 5.1.1.3, A2, A5.2
14	Knowledge and Understanding of Job Documentation including Fixed / Frozen Process	10	W	AS9100, AC7108/2: 3.1, 3.1.1.2 General Industry
15	Knowledge and Understanding of proper chemistry usage and application	10	W	AC7108/2: 4.3.2.3, 4.3.6, 4.3.9, 5.1.4.6
16	Knowledge and Understanding of the General Cleaning, Mechanical Cleaning and Chemical Cleaning prior to Etching	10	W	AC 7108/2: 3.1.1.6.2, 4.5, 4.6
17	Knowledge and Understanding of Etch Rate and Stock Removals  Knowledge and Understanding of how to correct or adjust Etch Rate and	10	W	AC7108/2 5.1 – 5.1.13
18	Stock Removals	10	W	AC 7108/2: 5.1.3, 5.1.4.4 – 5.1.13
19	Knowledge and Understanding of Local Etch Stock Solutions and correct chemistry application and removal	10		AC 7108/2:5.1.3, 5.1.1.4 – 5.1.13
20	Knowledge and Understanding of Laboratory Procedures	10	W	AC7108 4.1, AC7108/2: 5.1, 5.1.3
21	Knowledge and Understanding of Analytical requirements & limits  Knowledge and Understanding to review and act on analytical data &	10	W	AC 7108/2: 5.1.4.8
22	limits	10	W	AC7108/2:5.1
23	Understand the need for pre-process checks (such as calibration status, temperatures & light levels	10	W	AC7108 3.10, AC 7108/2: 4.5.1, 4.8.1, A7.1.3.12
24	Understanding of Racking and part set-up	10	W	AC 7108/2: 3.1.1.6.4
25	Thorough understanding of the appropriate etch process	10	W	AC 7108/2: A7, B7, C7, D7; AC 7108/15
26	Knowledge and Ability to write and review internal procedures and practices	10	W	AC7108/2: 4.4

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27	Knowledge to recognize unsafe and/or inappropriate work practices	10	w	Occupational Safety and Health Administration (OSHA); Environmental laws and regulations
28	Knowledge and Understanding of the effect of all aspects of the etching process on different alloys and materials (including masking materials, tanks, work environment etc.).	10	w	AC7108 3.4, 3.6.1
29	Understand how to deal with incorrect or in appropriate etch processing	10	W	AC 7108: 3.4, 4.2.2
30	Knowledge and Understanding of the selection of appropriate plant and equipment for use in etch inspection	10	w	AC 7108: 5.1, 5.3
31	Understanding of the significance pH and grades of water purity and their measurement	7	w	AC 7108: 4.5, 4.5.4.6,
32	Knowledge and Understanding of appropriate lighting levels and their measurement	10	w	AC 7108: 3.7.1, A5.1 – A5.4
33	General Knowledge and Understanding of all the etch inspection processes (including their strengths and weaknesses)	7	w	AC 7108/2: A1, B1, C1, D1; AC 7108/15
34	Knowledge and Understanding to select appropriate inspection methods	10	w	AC 7108/2: A1, B1, C1, D1; AC 7108/15
35	NITAL AND TEMPER ETCH:			
36	Accept / Reject Criteria	10	W	AC 7108/2: D5.5, D7.2.4.1
37	Understanding the effects of heat being applied to metal during the cutting, grinding and forming	10	W	General Industry; AC 7108/2: D7.1
38	A conforming etched surface will exhibit a matte gray etched surface	10	W	Addendum 1; AC7108/2: D7.1
39	Temper Etch Inspection is used for inspection of Low Alloy Steels (Group A), Tool Steels (Group B), Limited Access or Swab Etch, Ammonium Persulfate Swat Etch	10	w	MIL-STD-867; AC 7108/2: D7.1
40	Understand the importance of proper equipment set-up and use	10	w	MIL-STD-867 / AMS 2649; AC 7108: 5.1, 5.3
41	Understand the use and control of known defect samples	10	W	MIL-STD-867 / AMS 2649;
42	Knowledge and Understanding to review known defect data	10	W	MIL-STD-867; AC 7108/2: D7.2.2
43	Understand surface preparation techniques and requirements	10	W	General Industry; AC 7108/2: D1
44	Understand process requirements	10	W	General Industry; AC 7108/2: D7.1.6.1
45	Understand post process requirements	10	W	General Industry; AC 7108/2: D6
46	Understand Local Swab Etch Process	10	W	General Industry; AC 7108/2: D4.4
47	Knowledge and Understanding to identify susceptibility of parts to corrosion and/or embrittlement	10	w	AC 7108/2 D7.2.2.2; MIL-STD-867
48	Knowledge and Understanding of sampling plans	10	W	AC 7108/2: D4, MIL-STD-867
49	Understanding of defects, their causes and their appearance after etching	10	W	AC 7108/2 D7.1.4.6; MIL-STD-867
50	Knowledge and Understanding to create and sign off Process Technique Sheets and Data Cards	10	W	AC 7108/2: D7.1.4.8
51	Knowledge and Understanding of the significance of indications and etched appearance	10	W	AC 7108/2 D7.1.4.6; MIL-STD-867
52	BLUE ETCH ANODIZE AND ELECTROLYTIC (ANODIC) ETCHING:			
53	Accept / Reject Criteria – Uniform color and appearance, segregation, laps, folds, cracks, inclusions, arc outs, pitted areas, inconclusive macrostructure, microstructure evaluation	10	w	SAE AMS 2642
54	Thorough understanding of the Blue Etch Anodize or Anodic Etch processes used	10	w	SAE AMS 2642; AC 7108/2: B
55	Acid salt immersion time and required stock removal	10	W	SAE AMS 2642
56	Anodize rectifier parameters, voltage, amperage, time, ramp rate	10	W	SAE AMS 2642; AC 7108/2: B2
57	Thorough understanding of the significance of rack construction and size, location and cleanliness of contact points	10	w	SAE AMS 2642; AC 7108/2: B3.1
58	Back strip immersion time and acceptable color range	10	W	SAE AMS 2642
59	Thorough understanding of handling and processing Titanium Understanding of defects, their causes and their appearance after BEA or	10	W	AC 7108/2: C4.4
60	anodic etching	10	W	SAE AMS 2642; AC7108/2: B5.5 – 5.8
61	Knowledge and Understanding to create and sign off Process Technique Sheets and Data Cards	10	W	AC 7108/2: B7.1.1.1.1, B7.1.4.7
62	Knowledge and Understanding of the significance of indications and etched appearance	10	W	SAE AMS 2642, AC7108/2: B5.5 – 5.8
63	MACROSTRUCTURE ETCH:  Accept / Reject Criteria	10	w	General Industry; AC 7108/2:C7.1.4 ASTM 340; ASTM A 646
65	Thorough understanding of the Macrostructure Etch process	10	w	General Industry; ASTM 340; ASTM A 646; AC 7108/2:C
66	Wet inspection and temporary marking	10	W	General Industry
67	Definition of a detectable and rejectable indications	10	w	General Industry; AC 7108/2:C; ASTM 340; ASTM A 646
68 69	Understand Local Swab Etch Process Understanding of Metallographic structure (grains, boundaries, phases	10 10	W	General Industry; AC 7108/2: C4 ASTM 340

114	High School Diploma or GED	10		
115	Apprenticeship	10		
116	Secondary Education	7		
117	TRAINING / HANDS-ON EXPERIENCE:			
118	Complete on the job training (Minimum # of hours required) Level 2 PT - Level 1 + 270 hours = 400 hours, total MT - Level 1 + 400 hours = 530 hours, total RT/UT/ET - Level 1 + 1200 hours = 1600 hours, total	10	Р	NAS410 or Training to gain the necessary knowledge (General Industry)
119	Experience or Basic understanding of the potential hazards / damage that the process can cause to parts	10	w	General Industry
120	Training must include Practical Examination according to Industry requirements	10	Р	NAS410
121	Temper Etch Inspection personnel shall pass a physical, written and practical test.	7	W/P	MIL-STD-867C & ARP1923
122	Pre-Penetrant Etch (Level 2) Formal Training 32 hours total (Level 1 + 16 hours)	10	w	NAS410
123	Pre-Penetrant Etch (Level 2) Experience 400 hours total (Level 1 + 270 hours)	10	Р	NAS410
124	Trained and certified in accordance with ARP 1923 (or equivalent)	10	W	ARP 1923
	NON-SPECIAL PROCESS RELATED REQUIREMENTS: Defined within these rolls are other general or pre-requisite needed			
125	Capability to lift up to 30 lbs. (e.g. up to 14 kg)	3	Р	General Industry
126	Capability to deal with repetitive bending and stooping	3	Р	General Industry
127	General understanding of Quality Systems (AS9100) or equivalent	10	W	General Industry
128	Vision Examination Pre-requisite: Jaeger No. 1 or equivalent, not less than 30 cm/12 inches in at least one eye, natural or corrected	10	Р	NAS410
129	Color Perception: Able to adequately distinguish / differentiate colors used in the process involved	10	Р	NAS410
130	SAFETY & ENVIRONMENTAL REQUIREMENTS:			
131	Knowledge and understanding of safety and handling of hazardous materials, chemicals, UV light etc. including safe storage, interpretation of Health & Safety Data Sheets and Regulatory Requirements	10	w	Environmental laws and regulations
132	Understand SDS and PPE Requirements: When and How to use appropriate personal protective equipment (PPE) (goggles, gloves, rubber boots, aprons, etc.)	10	w	Occupational Safety and Health Administration (OSHA)
133	Ability to prepare and administer appropriate safety and environmental procedures and controls	10	w	Occupational Safety and Health Administration (OSHA)
134	Additional Safety & Environmental Requirements	10	W	Addendum 2

### 7. PORTFOLIO REQUIREMENTS

Row #	COMPETENCE	Exam Type Written / Practical	Reference Guidelines
	PORTFOLIO REQUIREMENTS (for OWNER LEVEL		
	Qualification Only) Portfolio must include the following components for consideration		
135	Planner Exam Score (Must receive at least 80%)	W	PD 6103 Etch Planner Exam
136	Planner Exam Validity (Must be within 6 months of requalification)	W	PD 6103 Etch Planner Exam
137	Experience Survey	W	General Industry
138	Resume of Experience (Description of Current and Previous Jobs)	W	General Industry
139	Employer / Client Verification (Signed Statement of Corroboration by either current employer or client)	W	General Industry
140	NOTE: The above components will be scored accordingly		

### 8. DOCUMENT REVISION HISTORY

REVISION DATE	SUMMARY		
11 Nov 14	Editorial change made to formatting and to add sequencing		
03 Jun 16	Editorial change made to update BoK with new template revisions		
06 Mar 17 Updated reference paragraphs for AC7108 and AC7108/2 in reference columns – all lin Added document NAS410 to Addendum 1			

# PRI Qualification<sup>SM</sup> BoK: CP, Etch Inspection/Nital, Temper, Blue Etch Anodize, Electrolytic (Anodic), Macrostructure, Pre-Penetrant, Owner - 9 -

	Added document AS9100 to Addendum 1		
	Added Addendum 2 REACh Regulation Information		
	Changed Anodic Etch to Electrolytic Etch – all line items		
3 December 2019	Editorial revision to update program name from eQualified to PRI Qualification <sup>SM.</sup>		

# ADDENDUM 1 LIST OF INTERNATIONAL STANDARDS & REFERENCE DOCUMENTS FOR CHEMICAL PROCESSING / ETCH

SPECIAL PROCESS	DOCUMENT TITLE	DOCUMENT
		NUMBER
Chemical Process	Audit Criteria for Chemical Processes	AC 7108
	Audit Criteria for Etch Inspection Processes (Anodic, Blue	
Chemical Process/Etch	Etch Anodize, Macrostructure, Nital/Temper) Appendix A, B, C, D	AC7108/2
Chemical Process/Etch	Audit Criteria for Pre-Penetrant Etch	AC 7108/15
NDT	Etch Inspection of High Strength Steel Parts	AMS 2649C
NDT	Pyrometry	AMS 2750
Chemical Process	Standard Methods of Analysis of Sulfochromate Etch Solution Used in Surface Preparation of Aluminum	ASTM D2674
Chemical Process	Liquid Penetrant Testing	<b>ASTM E 1417</b>
Macrostructure Etch	Standard Specification for Premium Quality Alloy Steel Blooms and Billets for Aircraft and Aerospace Forgings	ASTM A 646
Macroetch	Standard Practice for Macroetching Metals and Alloys	ASTM E 340
Etch Inspection	Method for the Etch Inspection of Metallic Material and Components	BSI SS M 37
Etch Inspection	Acid Etch Inspection for Steel Parts	HB7717
NDT	Nital Etch	MIL-STD-867
NDT	NAS CERTIFICATION & QUALIFICATION OF NONDESTRUCTIVE TEST PERSONNEL	NAS410
Chemical Process	Temper Etch Inspection	MIL-STD-867 C
Etch Inspection	Structural Examination of Titanium Alloys Etch-Anodize Inspection Procedure	SAE AMS2642D
Etch Inspection	Structural Examinations of Titanium Alloys Chemical Etch Inspection Procedure	SAE AMS2643E
Etch Inspection	Qualification & Certification of Etch Inspector	SAE ARP 1923 A
Quality	Quality Management Systems – Requirements for Aviation, Space and Defense Organizations	AS9100

#### **ADDENDUM 2**

#### **ADDITIONAL SAFETY & ENVIRONMENTAL REQUIREMENTS**

#### **REACH REGULATION INFORMATION**

Several metal finishing processes (painting, anodize, chromate conversion, passivate, electroplating) may have REACh regulated substances that are either used as process chemicals or are contained within the finished product after a process is completed. Chemical suppliers are obliged to provide a legislatively compliant safety data sheet. Below are topics of concern that a chemical processing owner should be aware of and have adequate understanding if products are produced within or shipped to the European Union.

- REACh (Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals)
- Affects raw materials/substances that go into products either produced within or shipped to the European Union.
- •Under EU REACh regulation, substances that are one of the following can be regarded as substance of very high concern (SVHC):
  - ocarcinogenic, mutagenic or toxic to reproduction (CMRs);
  - opersistent, bio-accumulative and toxic (PBTs);
  - overy persistent and bio-accumulative (vPvBs);
  - oseriously and / or irreversibly damaging the environment or human health, as substances damaging the hormone system;
- •The SVHC candidate list is a moving target that will continue to grow with 168 substances as of January 2016. This list is reviewed nominally twice a year by ECHA.
- Some typically used SVHC's contained in or used but not limited to during chemical processing are;
  - Cadmium
  - oStrontium Chromate
  - oChromium trioxide
  - Sodium dichromate
- •SVHC content is allowable up to 0.1% of an article produced within or shipped to the EU.
- Additionally, SVHC's may at some time be added to the Authorization List known as Annex 14 or XIV which contains a sunset date for each SVHC in this list.
- •Chemical processing owner needs to be aware of sunset dates for SVHC's contained in the Authorization list. Once an SVHC from the Authorization List reaches the sunset date, it can no longer be used in the EU without specific authorization from ECHA (European Chemicals Agency).
- •Manufacturing sites either located within or if shipping product to the EU must comply with all aspects of REACh. Chemical suppliers in the EU must provide safety data sheets that reflect any conditions of an authorization.
- •Further information/current SVHC and Authorization list with sunset dates can be obtained by accessing (<a href="http://www.echa.europa.eu/web/guest/candidate-list-table">http://www.echa.europa.eu/web/guest/candidate-list-table</a>)