

CRAFT 2.0

Code Volume 2B

Requirements for ASM Mineral Producers Commodity-specific Requirements

October 05, 2020

Official version: English¹

CRAFT 2.0 supersedes the CRAFT 1.0 (July 31, 2018) after the second round of public consultation

The Code maintainer is the Alliance for Responsible Mining (ARM) Contact: standards@responsiblemines.org

This document was developed by the ARM Standards Team as part of the CAPAZ Project (funded by EPRM and implemented by ARM and RESOLVE) and the CRAFT Standard Committee convened by ARM, with support by the CRAFT Advisory Group convened by RESOLVE.



The CRAFT Code is released under the "Creative Commons Attribution-ShareAlike 4.0 International" License (https://creativecommons.org/licenses/by-sa/4.0/). Explicitly or implicitly referenced content from other sources remains under the Copyright of the respective source.

¹ In the case of inconsistency between versions, reference defaults to the official language version: English, version number 2.0.

CONTENTS

Introduction		3
1.	Gold: Specific requirements	5
	MODULE 1: ADOPTING A MANAGEMENT SYSTEM	5
	MODULE 5: "NON-ANNEX II" HIGH RISKS REQUIRING IMPROVEMENT	6
	1.1 Human and Workers' Rights	6
2.	Tin, Tantalum, Tungsten (3T): Specific requirements	10
	MODULE 5: "NON-ANNEX II"	
	HIGH RISKS REQUIRING IMPROVEMENT	10
	2.1 Human and Workers' Rights	10
3.	Cobalt: Specific requirements	13
	MODULE 5: "NON-ANNEX II" HIGH RISKS REQUIRING IMPROVEMENT	13
	3.1 Human and Workers' Rights	13
4.	Coloured Gemstones: Specific requirements	16



INTRODUCTION

The CRAFT Code consists of three indivisible volumes. Volume 1 contains the description of the purpose, logic and principles of CRAFT, its scope and terminology. Volume 2 assumes that users are familiar on how to apply CRAFT in alignment with Volume 1.

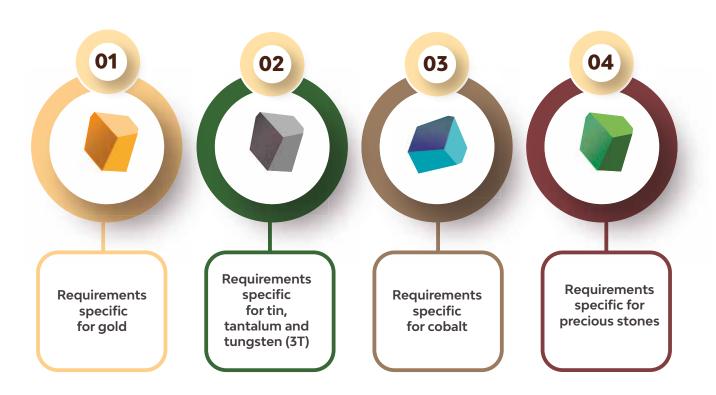
Volume 2A contains all commodity-in-dependent requirements for ASM Mineral Producers (AMPs). Requirements for AMPs that apply only for certain commodities are contained in **this Volume 2B**. Beyond improved readability and clarity of applicable requirements², this separation has no further implication at all. Volume 2B is the continuation of Volume 2A and both together conform the Volume 2.

Background information, further comments, explanatory notes and suggested tools are contained in **Volume 4** (Guidance Book).



² e.g. Gold miners do not have to read the requirements for cobalt and tantalum miners and vice versa. It eliminates the need for AMPs to evaluate if a requirement applies or not (e.g. in exaggerated terms: gemstone miners wondering why they should reduce mercury?).

SPECIFIC REQUIREMENTS OF MINERAL PRODUCTS







1. GOLD: SPECIFIC REQUIREMENTS

In addition to the commodity-independent requirements in Volume 2A the following commodity-specific requirements apply for all AMPs producing gold as main- or by-product.

MODULE 1: ADOPTING A MANAGEMENT SYSTEM

M.1/5.2.3/S.1.1



5. Category: Company Governance5.2 Issue: Management Practices5.2.3 Sub-Issue: Management System

The AMP declares that it is committed to support the Minamata Convention on Mercury and to "reduce, and where feasible eliminate, the use of mercury", as required by the Convention.



Criteria: The AMP declares (in the CRAFT Report or a separate statement) its commitment to "reduce, and where feasible eliminate, the use of mercury", as required by the Minamata Convention.

MODULE 5: "NON-ANNEX II" HIGH RISKS REQUIRING IMPROVEMENT

1.1 HUMAN AND WORKERS' RIGHTS

M.5/1.3.11/S.1.1

(Addresses Minamata Convention, Annex C, par.1 (b) (i))



1. Category: Human and Workers' Rights
1.3 Issue: Occupational Health & Safety
1.3.11 Sub-Issue: Mercury Use & Production

The AMP takes steps towards elimination of whole ore amalgamation.



Risk

The entire mined ore (alluvial sediments or hard rock mineral) is amalgamated without any pre-concentration ("whole ore amalgamation").



Controlled

The AMP does not use whole ore amalgamation. All mined ore is pre-concentrated (using hand sorting, gravimetric concentration, flotation or other methods) and, if amalgamation is needed, only the concentrate is amalgamated.

-- or -

The AMP does not use mercury.



Progressing

Improvement: The AMP has a technical improvement plan in place and implements it, by assessing appropriate mineral concentration methods, implementing these methods in its domestic and industrial mineral processing plant(s), and making them mandatory for all members.

M.5/1.3.11/S.1.2

(Addresses Minamata Convention, Annex C, par.1 (b) (ii))



1. Category: Human and Workers' Rights 1.3 Issue: Occupational Health & Safety

1.3.11 Sub-Issue: Mercury Use & Production

The AMP takes steps towards elimination of open burning of amalgam or processed amalgam.



Risk

Amalgam burning is done without the use of any kind of mercury recovery device.



Controlled

Open burning of amalgam does not take place. Amalgam burning is only done in retorts or under fume hoods equipped with mercury capturing devices.

-- or -

The AMP does not use mercury.



Progressing

in place and implements it, by raising awareness of mercury-related health hazards, making mercury recovery devices available and accessible to individual members (miners and aggregators), and making their use mandatory.

M5/1.3.11/S.1.3

(Addresses Minamata Convention, Annex C, par.1 (b) (iii))



1. Category: Human and Workers' Rights
1.3 Issue: Occupational Health & Safety
1.3.11 Sub-Issue: Mercury Use & Production

The AMP takes steps towards elimination of amalgam burning in residential areas.



Risk

Amalgam burning takes place in residential areas such as in the homes of miners or typical downtown gold shops.



Controlled

Amalgam burning is done in dedicated areas only, never inside homes or near residential areas.

The AMP does not use mercury.



Progressing

Improvement: The AMP has a technical improvement plan in place and implements it, by making miners and their families aware of the health hazards of mercury and avoiding amalgam burning at home, and relocating aggregators of the AMP (gold shops) to dedicated areas non-adjacent to residential areas, food markets, or restaurants.

M.5/1.3.11/S.1.4

(Addresses Minamata Convention, Annex C, par.1 (b) (iv))



1. Category: Human and Workers' Rights
1.3 Issue: Occupational Health & Safety
1.3.11 Sub-Issue: Mercury Use & Production

The AMP takes steps towards elimination of the practice of cyanide leaching in sediments, ore, or tailings to which mercury had been added, without first removing the mercury.



Risk

Amalgamation tailings (from alluvial sediments or hard rock ore) are, without any pre-treatment to remove mercury, processed in cyanide leaching plants. This also applies for amalgamated pre-concentrates (where whole ore amalgamation has already been eliminated).



Controlled

Materials to leach (sediments, ore or tailings) do not originate from preceding amalgamation processes where mercury had been added.

-- or -

The AMP does not apply cyanide leaching.



Progressing

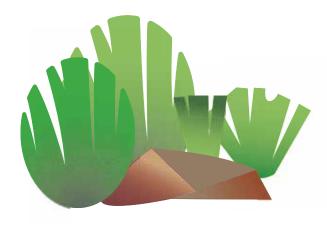
Improvement: Materials to leach (sediments, ore or tailings) are pre-processed before leaching, in order to first removing the mercury.

2. TIN, TANTALUM, TUNGSTEN (3T): SPECIFIC REQUIREMENTS

In addition to the commodity-independent requirements in Volume 2A the following commodity-specific requirements apply for all AMPs producing tantalum as main- or by-product.

MODULE 5: "NON-ANNEX II"
HIGH RISKS REQUIRING IMPROVEMENT

2.1 HUMAN AND WORKERS' RIGHTS



M.5/1.3.10/S.2.1



Category: Human and Workers' Rights
 Issue: Occupational Health & Safety
 Sub-Issue: Hazardous Substances

Applies to Tantalum: The AMP takes steps to minimize the exposure of Miners³ to radioactive emissions from tantalum ore (Coltan) and concentrates.



Risk

Tantalum ores (Coltan) may contain traces of radioactive elements, namely uranium, thorium and radium that can affect the health of Miners engaged in their extraction, processing or transport.



Controlled

The content of radioactive elements in the tantalum ore (Coltan) is insignificant.

-- or --

Miners are aware of the risk and, if exposed to Coltan more often than occasionally, use dust masks at the workplace, and wash body and change clothes before leaving the workplace.



Progressing

Improvement: If the tantalum ore (Coltan) contains radioactive elements in a concentration that is considered a health hazard, the AMP informs its Members about health risks, and an improvement plan to mitigate the risk of acute occupational radiation exposure, especially by Coltan particles, is being developed and implemented.

³See definition in Volume 1: The term Miner includes all men and women involved in mineral extraction, selection, processing or transportation from primary or secondary deposits, dumps and tailings. mercury?).

M.5/1.3.10/S.2.2



Category: Human and Workers' Rights
 Issue: Occupational Health & Safety
 Sub-Issue: Hazardous Substances

Applies to Tantalum: The AMP takes steps to minimize the exposure of residential areas to radioactive emissions from tantalum ore (Coltan) and concentrates.



Risk

Tantalum ores (Coltan) may contain traces of radioactive elements, namely uranium, thorium and radium that can affect the health of Miner's families if mined products are stored in their homes.



Controlled

The content of radioactive elements in the tantalum ore (Coltan) is insignificant.

-- or --

Miners are aware of the risk and avoid stockage of mineral bags in homes.



Progressing

Improvement: If the tantalum ore (Coltan) contains radioactive elements in a concentration that is considered a health hazard, the AMP informs its Members about health risks, and an improvement plan to mitigate long-term radiation exposure, especially from storing ore or concentrate in homes and residential areas, is being developed and implemented.

3. COBALT: SPECIFIC REQUIREMENTS

In addition to the commodity-independent requirements in Volume 2A the following commodity-specific requirements apply for all AMPs producing cobalt as main- or by-product.

MODULE 5: "NON-ANNEX II"
HIGH RISKS REQUIRING IMPROVEMENT

3.1 HUMAN AND WORKERS' RIGHTS



M.5/1.3.10/S.3.1



Category: Human and Workers' Rights
 Issue: Occupational Health & Safety
 Sub-Issue: Hazardous Substances

The AMP takes steps to minimize the exposure of Miners⁴ to cobalt and traces of other potentially harmful chemical elements contained in the ore.



Risk

Excessive exposure to cobalt may cause various adverse health effects. Additionally, cobalt ores may contain traces of other potentially toxic or radioactive elements. This can affect the health of Miners engaged in their extraction, processing or transport.



Controlled

Miners are aware of the risk and, if exposed to cobalt ore or concentrate more often than occasionally, use dust masks at the workplace, and wash body and change clothes before leaving their workplace.



Progressing

Improvement: The AMP has obtained information on the chemical characteristics of its ore and informs its Members about health risks. An improvement plan to mitigate the risk of occupational poisoning or radiation exposure, especially by dust particles of cobalt ore is being developed and implemented

⁴ See definition in Volume 1: The term Miner includes all men and women involved in mineral extraction, selection, processing or transportation from primary or secondary deposits, dumps and tailings.

M.5/1.3.10/S.3.2



Category: Human and Workers' Rights
 Issue: Occupational Health & Safety
 Sub-Issue: Hazardous Substances

The AMP takes steps to minimize the exposure of residential areas to cobalt and traces of other potentially harmful chemical elements contained in the ore.



Risk

Excessive exposure to cobalt may cause various adverse health effects. Additionally, cobalt ores may contain traces of other potentially toxic or radioactive elements. This can affect the health of Miner's families if mined products are stored in their homes.



Controlled

Miners are aware of the risk and do not store mineral bags in homes and loading and transport is done in a safe way.



Progressing

Improvement: The AMP has obtained information on the chemical characteristics of its ore and informs its Members about health risks. An improvement plan to mitigate the risk of contaminating homes, residential areas and along transportation routes is being developed and implemented.

4. COLOURED GEMSTONES: SPECIFIC REQUIREMENTS

All commodity-independent requirements in Volume 2A apply. No commodity-specific requirements apply.