

Contents

1. Competency Standard	9
1.1 Unit descriptor	9
1.2 Application of the unit.....	9
1.3 Unit sector	9
2. Element 1 Prepare for sampling	13
2.1 Sampling definitions and terms.....	15
2.2 Principles of sampling	16
2.3 What can go wrong with sampling?	17
2.4 Sampling terminology	18
2.4.1 <i>Summary of sampling procedure issues</i>	19
2.5 Confirm the purpose, priority and scope of the sampling request	20
2.5.1 <i>Identify sampling required</i>	20
2.6 Liaise with relevant personnel to arrange site access and all necessary clearances/permits	21
2.7 Identify site hazards and review enterprise safety procedures	22
2.8 Confirm what samples are to be collected, from where, how and when	23
2.9 Sampling plans	24
2.10 Assemble all specified sampling equipment, safety equipment, materials and containers	24
2.11 Sampling of aggregate.....	25
2.12 Conduct pre-use and cleanliness checks of all items to ensure they are fit for purpose.....	26
2.13 Check all equipment/materials against a given inventory and stow them to ensure safe transport.	27
3. Element 2 Conduct Sampling.....	31
3.1 Locate sampling point(s) and services at the site	33
3.2 Seek advice if the required samples cannot be collected or if procedures require modification	33
3.3 Select and use required sampling equipment in accordance with given procedures.....	34
3.4 Closely follow sampling procedures to obtain required samples and maintain their integrity ..	34
3.4.1 <i>Sampling procedures</i>	35
3.5 Maintaining sample security and integrity.....	35
3.6 Record all labelling information in accordance with workplace/legal traceability requirements	36
3.7 Record sample appearance, environmental conditions and any other factors that may impact on sample integrity.....	37
3.8 Examples of Sampling Procedures (from AS 1141.3.1 – 1996)	38
3.9 Sampling from a stopped conveyor belt	38

3.10	Sampling from bins.....	39
3.11	Sampling from trucks	40
3.11.1	<i>Location of sampling points</i>	40
3.11.2	<i>Sampling of fine aggregate</i>	41
3.12	Sampling from stockpiles	42
3.13	Use of sampling tubes	42
3.13.1	<i>Sampling using other than a back blading method.....</i>	43
3.13.2	<i>Sampling using a back blading method.....</i>	43
3.13.3	<i>Sampling from a placed layer of pavement.....</i>	43
3.13.4	<i>Sampling from small heaps or windrows</i>	43
4.	Element 3 Finalise sampling	47
4.1	Follow enterprise procedures for the cleaning/ decontamination of equipment	49
4.2	Check all equipment and materials against inventory and stow for safe transport	49
4.3	Liaise with relevant personnel to restore normal production and/or services as necessary	50
4.4	Maintain integrity of samples during transportation.....	51
4.5	Sample preservation techniques.....	51
4.6	Deliver samples to the required collection point and complete all documentation to ensure traceability	52
4.7	Organising samples for transport to testing.....	52
4.8	On return, check and document serviceability of equipment before storage	53
5.	Element 4 Maintain a safe work environment	57
5.1	Use established work practices and personal protective equipment to ensure personal safety and that of others.....	59
5.2	Minimise environmental impacts of sampling and generation of waste.....	60
5.3	Environmental issues	60
5.4	Dispose of all wastes in accordance with workplace procedures	61
5.4.1	<i>Safety and waste</i>	61