

Practical Examination

Student Version

Name:	
Exam Date:	Course Trainer:
Email Address:	
Postal Address:	
Company:	SCA Membership No:
Stude The maximum allov	PLEASE NOTE: Please answer all questions. nts are allowed to work in groups. wable time for this examination is 165 minutes. language that is not your first language, an extra 10

minutes is available upon request of the examiner. Students must pass each section of the practical exam to pass, overall.



Assessment One: Pass Fail Assessment Two: Pass Fail
Assessment Three: Pass Fail

Final Assessment Pass Fail

The most powerful tools that a Professional Brewer possesses are their analytical minds and their ability to process a multitude of changing variables. These variables help to understand how best to interpret the information and then to offer a solution or opinion that will improve the coffee quality, service and delivery for their clients.

Practical Test 1 – Strength and Extraction Comparison 66 points available (Part A & B)

The order in which Sections 1 and 2 are done is at the AST's discretion. Students only need to successfully brew and measure the calibration brew b once. Students should use worksheets to record brew parameters, then record successful brews below.

Part A. Extraction % Comparison

- Time available: 60 minutes
- Students will work in groups of two or three and openly discuss the tasks.
- Students will create brews to 'hit' the targets listed below (suggested brewing device is AFB)
- This practical exam will test the student's ability to navigate the Coffee Brewing Control Chart by using their mastery and knowledge of all brewing parameters and their predicted effect on extraction.

Uniform strength: 1.33% +/- 0.05%

- a. Brew 16% +/- 1%
- b. Brew 20% +/- 1% (reference/calibration brew)
- c. Brew 24% +/- 1%

Brew	Coffee (g)	Water (I)	Brew Time	%TDS	% Ext	Taste Descriptors	Complete (6 pts ea)
a.							
b.							
C.							
Learnings/ Evaluation/ Comparison							
Explain how you arrive at each brew in Part A:			Part A:	Score:	Student has successfully explained how they arrived at each brew in Part A. (18 points)		

Part B. Strength % Comparison

- Time available: 60 minutes
- Students will work in groups of two or three and openly discuss the tasks.
- Students will create brews to 'hit' the targets listed below (suggested brewing device is AFB)
- This practical exam will test the student's ability to navigate the Coffee Brewing Control Chart by using their mastery and knowledge of all brewing parameters and their predicted effect on strength.

Uniform extraction: 20% +/- 1%

a. Brew 1.0% +/- 0.05%

b. Brew 1.3% +/- 0.05% (reference/calibration brew)

c. Brew 1.6% +/- 0.05%

Brew	Coffee (g)	Water (I)	Brew Time	%TDS	% Ext	Taste Descrip	tors	Complete (6 pts ea)
a.								
b.								
C.								
Learnings/ Evaluation/ Comparison								
Explain how you arrive at each brew in Part B:				Score:		Student has successfully explained ho they arrived each brew in B. (18 points	ow at n Part	

Practical Test 2 – Water

- Time available: 45 minutes
- 15 points available
- Students will work in groups of two or three and openly discuss the tasks
- Students blindly choose two water samples from selection given
- Students must measure/test the sample to find the 'three key parameters'
- Students will also measure TDS
- Students must determine if water sample if suitable for brewing using the SCAE Water Chart Worksheet
- Students must create a brew with one of their water samples and predict the flavor profile

Sample #	Alkalinity 1 pt	Total Hardness 1 pt	pH 1 pt	TDS 1 pt	Ideal Water Standard Y/N 1 pt	Total Pts (/5 per sample)
1.						
2.						
Sample Chosen						
Flavor Prediction						
Actual Flavor						
Brew Sample and Flavor Predict	ion	Score:		brewed a water sar	nas successfully coffee with one mple and predic file (5 points)	Э

SCORING SUMMARY: __/30 Test 1: Produce 5 brews within target ranges (6 points per coffee) __/36 Test 1: Explain how they arrived at each of the brews (18 points per Part) __/5 Test 2: Correctly measure 2 water samples (5 points per sample) __/5 Brews with one water sample and predicts the flavor outcome (5 points) //81 TOTAL POINTS, passing score is 65.