Apprenticeship and Industry Training

Baker

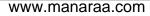
Apprenticeship Course Outline

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Apprenticeship

Apprenticeship is post-secondary education with a difference. Apprenticeship begins with finding an employer. Employers hire apprentices, pay their wages and provide on-the-job training and work experience. Approximately 80 per cent of an apprentice's time is spent on the job under the supervision of a certified journeyperson or qualified tradesperson. The other 20 per cent involves technical training provided at, or through, a post-secondary institution – usually a college or technical institute.

To become certified journeypersons, apprentices must learn theory and skills, and they must pass examinations. Requirements for certification—including the content and delivery of technical training—are developed and updated by the Alberta Apprenticeship and Industry Training Board on the recommendation of Baker Provincial Apprenticeship Committee.

The graduate of the Baker apprenticeship program is a certified journeyperson who will be able to:

- prepare and bake all types of high quality yeast raised products in commercial quantities.
- produce and decorate various types of cakes, cookies and pastries commonly available in commercial bakeries.
- use efficiently and safely all hand and power operated equipment available in modern bakeries.
- practice good housekeeping procedures and maintain high levels of sanitation.
- apply the basics of management, costing and business controls.

Apprenticeship and Industry Training System

Industry-Driven

Alberta's apprenticeship and industry training system is an industry-driven system that ensures a highly skilled, internationally competitive workforce in more than 50 designated trades and occupations. This workforce supports the economic progress of Alberta and its competitive role in the global market. Industry (employers and employees) establishes training and certification standards and provides direction to the system through an industry committee network and the Alberta Apprenticeship and Industry Training Board. The Alberta government provides the legislative framework and administrative support for the apprenticeship and industry training system.

Alberta Apprenticeship and Industry Training Board

The Alberta Apprenticeship and Industry Training Board provide a leadership role in developing Alberta's highly skilled and trained workforce. The board's primary responsibility is to establish the standards and requirements for training and certification in programs under the Apprenticeship and Industry Training Act. The board also provides advice to the Minister of Advanced Education and Technology on the needs of Alberta's labour market for skilled and trained workers, and the designation of trades and occupations.

The thirteen-member board consists of a chair, eight members representing trades and four members representing other industries. There are equal numbers of employer and employee representatives.

Industry Committee Network

Alberta's apprenticeship and industry training system relies on a network of industry committees, including local and provincial apprenticeship committees in the designated trades, and occupational committees in the designated occupations. The network also includes other committees such as provisional committees that are established before the designation of a new trade or occupation comes into effect. All trade committees are composed of equal numbers of employer and employee representatives. The industry committee network is the foundation of Alberta's apprenticeship and industry training system.



Local Apprenticeship Committees (LAC)

Wherever there is activity in a trade, the board can set up a local apprenticeship committee. The board appoints equal numbers of employee and employer representatives for terms of up to three years. The committee appoints a member as presiding officer. Local apprenticeship committees:

- monitor apprenticeship programs and the progress of apprentices in their trade, at the local level
- make recommendations to their trade's provincial apprenticeship committee (PAC) about apprenticeship and certification in their trade
- promote apprenticeship programs and training and the pursuit of careers in their trade
- make recommendations to the board about the appointment of members to their trade's PAC
- help settle certain kinds of disagreements between apprentices and their employers
- carry out functions assigned by their trade's PAC or the board

Provincial Apprenticeship Committees (PAC)

The board establishes a provincial apprenticeship committee for each trade. It appoints an equal number of employer and employee representatives, and, on the PAC's recommendation, a presiding officer - each for a maximum of two terms of up to three years. Most PAC's have nine members but can have as many as twenty-one. Provincial apprenticeship committees:

- Make recommendations to the board about:
 - standards and requirements for training and certification in their trade
 - courses and examinations in their trade
 - apprenticeship and certification
 - designation of trades and occupations
 - regulations and orders under the Apprenticeship and Industry Training Act
 - monitor the activities of local apprenticeship committees in their trade
- determine whether training of various kinds is equivalent to training provided in an apprenticeship program in their trade
- promote apprenticeship programs and training and the pursuit of careers in their trade
- consult with other committees under the Apprenticeship and Industry Training Act about apprenticeship programs, training and certification and facilitate cooperation between different trades and occupations
- consult with organizations, associations and people who have an interest in their trade and with employers and employees in their trade
- may participate in resolving certain disagreements between employers and employees
- carry out functions assigned by the board

Baker PAC Members at the Time of Publication

Mr. P. Schwabenbauer	. Edmonton	Presiding Officer
Mr. I. Bragoli	. Calgary	. Employer
Mr. C. Brouse	. Edmonton	. Employer
Mr. D. Dornn	. Edmonton	. Employer
Mr. B. Jaeger	. Edmonton	. Employer
Mr. M. Curtis	. Leduc	. Employee
Mr. J. John	. Calgary	. Employee
Mr. J. Sherlock	. Edmonton	. Employee

Alberta Government

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Alberta Advanced Education and Technology works with industry, employer and employee organizations and technical training providers to:

- facilitate industry's development and maintenance of training and certification standards
- provide registration and counselling services to apprentices and employers
- coordinate technical training in collaboration with training providers
- certify apprentices and others who meet industry standards



Technical Institutes and Colleges

The technical institutes and colleges are key participants in Alberta's apprenticeship and industry training system. They work with the board, industry committees and Alberta Advanced Education and Technology to enhance access and responsiveness to industry needs through the delivery of the technical training component of apprenticeship programs. They develop lesson plans from the course outlines established by industry and provide technical training to apprentices.

Apprenticeship Safety

Safe working procedures and conditions, incident/injury prevention, and the preservation of health are of primary importance in apprenticeship programs in Alberta. These responsibilities are shared and require the joint efforts of government, employers, employees, apprentices and the public. Therefore, it is imperative that all parties are aware of circumstances that may lead to injury or harm.

Safe learning experiences and healthy environments can be created by controlling the variables and behaviours that may contribute to or cause an incident or injury. By practicing a safe and healthy attitude, everyone can enjoy the benefit of an incident and injury free environment.

Alberta Apprenticeship and Industry Training Board Safety Policy

The Alberta Apprenticeship and Industry Training Board (board) fully supports safe learning and working environments and emphasizes the importance of safety awareness and education throughout apprenticeship training- in both on-the- job training and technical training. The board also recognizes that safety awareness and education begins on the first day of on-the-job training and thereby is the initial and ongoing responsibility of the employer and the apprentice as required under workplace health and safety training. However the board encourages that safe workplace behaviour is modeled not only during on-the-job training but also during all aspects of technical training, in particular, shop or lab instruction. Therefore the board recognizes that safety awareness and training in apprenticeship technical training reinforces, but does not replace, employer safety training that is required under workplace health and safety legislation.

The board has established a policy with respect to safety awareness and training:

The board promotes and supports safe workplaces, which embody a culture of safety for all apprentices, employers and employees. Employer required safety training is the responsibility of the employer and the apprentice, as required under legislation other than the *Apprenticeship and Industry Training Act.*

The board's complete document on its 'Apprenticeship Safety Training Policy' is available at <u>www.tradesecrets.gov.ab.ca</u>; access the website and conduct a search for 'safety training policy'.

Implementation of the policy includes three common safety learning outcomes and objectives for all trade course outlines. These common learning outcomes ensure that each course outline utilizes common language consistent with workplace health and safety terminology. Under the title of 'Standard Workplace Safety', this first section of each trade course outline enables the delivery of generic safety training; technical training providers will provide trade specific examples related to the content delivery of course outline safety training.

Workplace Health and Safety

A tradesperson is often exposed to more hazards than any other person in the work force and therefore should be familiar with and apply the Occupational Health and Safety Act, Regulations and Code when dealing with personal safety and the special safety rules that apply to all daily tasks.

Workplace Health and Safety (Alberta Employment, Immigration and Industry) conducts periodic inspections of workplaces to ensure that safety regulations for industry are being observed.

Additional information is available at www.worksafely.org



Technical Training

Apprenticeship technical training is delivered by the technical institutes and many colleges in the public postsecondary system throughout Alberta. The colleges and institutes are committed to delivering the technical training component of Alberta apprenticeship programs in a safe, efficient and effective manner. All training providers place great emphasis on safe technical practices that complement safe workplace practices and help to develop a skilled, safe workforce.

The following institutions deliver Baker apprenticeship technical training: Northern Alberta Institute of Technology Southern Alberta Institute of Technology

Procedures for Recommending Revisions to the Course Outline

Advanced Education and Technology has prepared this course outline in partnership with the Baker Provincial Apprenticeship Committee.

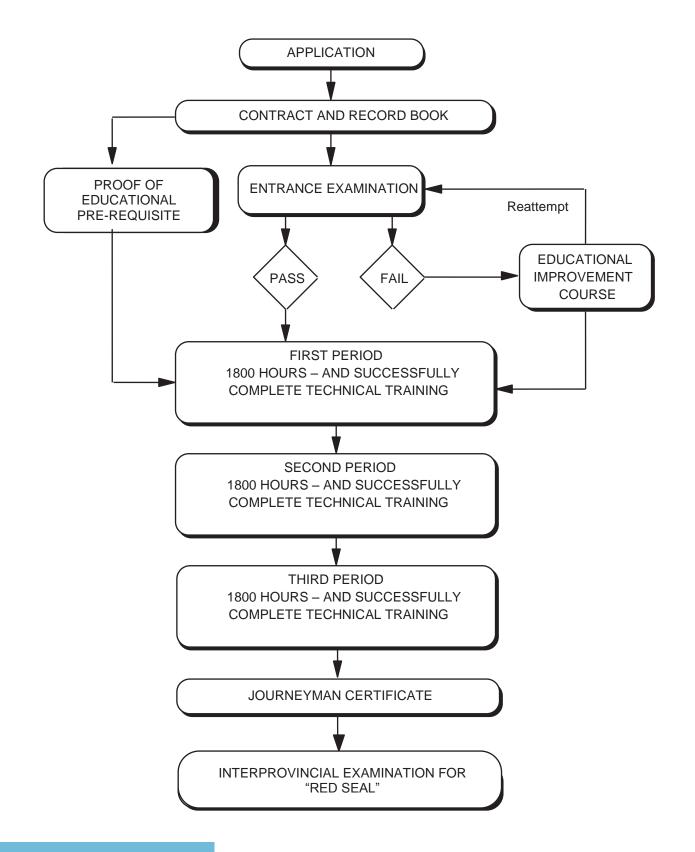
This course outline was approved on December 9, 2011 by the Alberta Apprenticeship and Industry Training Board on a recommendation from the Provincial Apprenticeship Committee. The valuable input provided by representatives of industry and the institutions that provide the technical training is acknowledged.

Any concerned individual or group in the province of Alberta may make recommendations for change by writing to:

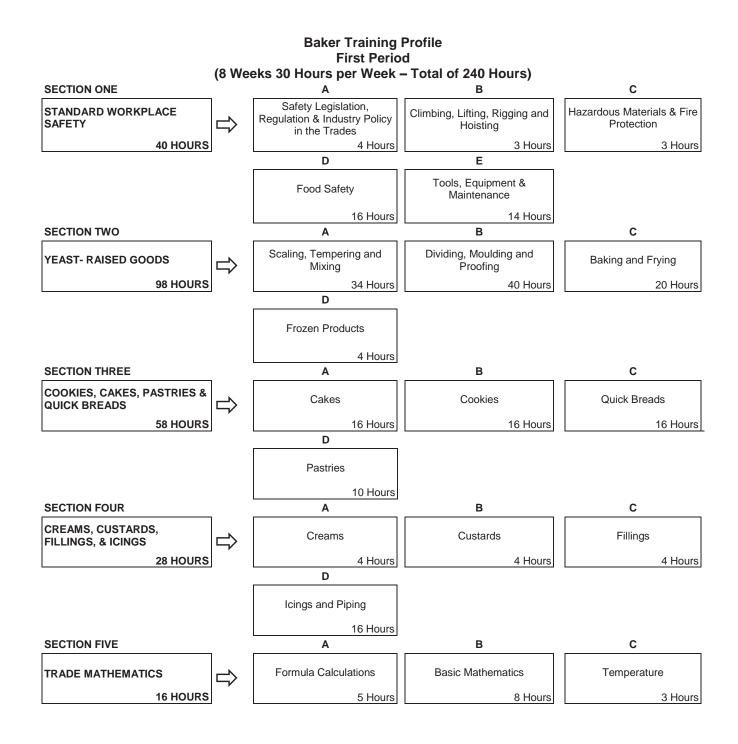
Baker Provincial Apprenticeship Committee c/o Industry Programs and Standards Apprenticeship and Industry Training Advanced Education and Technology 10th floor, Commerce Place 10155 102 Street NW Edmonton AB. T5J 4L5

It is requested that recommendations for change refer to specific areas and state references used. Recommendations for change will be placed on the agenda for regular meetings of the Baker Provincial Apprenticeship Committee.



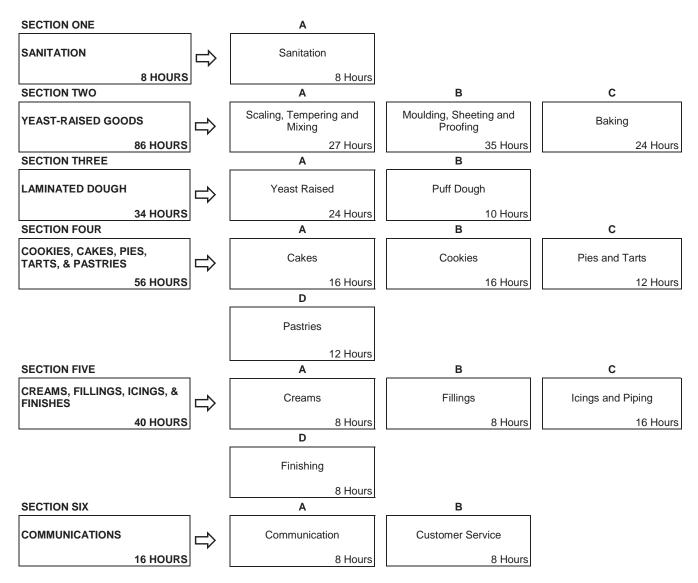






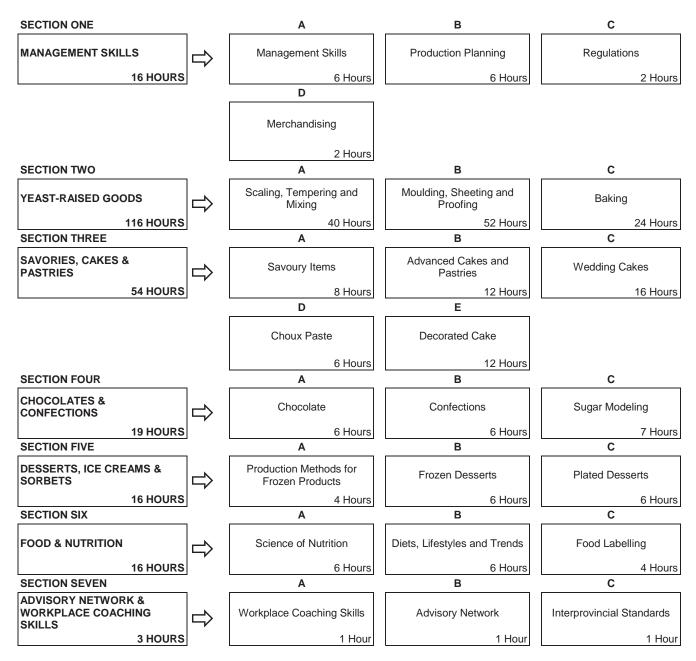


Second Period (8 Weeks 30 Hours per week – Total of 240 Hours)





Third Period (8 Weeks 30 Hours per week – Total of 240 Hours)



NOTE: The hours stated are for guidance and should be adhered to as closely as possible. However, adjustments must be made for rate of apprentice learning, statutory holidays, registration and examinations for the training establishment and Apprenticeship and Industry Training



FIRST PERIOD TECHNICAL TRAINING BAKER TRADE COURSE OUTLINE

UPON SUCCESSFUL COMPLETION OF THIS PROGRAM THE APPRENTICE WILL BE ABLE TO PERFORM THE FOLLOWING OUTCOMES AND OBJECTIVES.

Outcome: Describe legislation, regulations and practices intended to ensure a safe work place in this trade.

- 1. Demonstrate the ability to apply the Occupational Health and Safety Act, Regulation and Code.
- Explain the role of the employer and employee in regard to Occupational Health and Safety (OH&S) regulations, Worksite Hazardous Materials Information Systems (WHMIS), fire regulations, Workers Compensation Board regulations and related advisory bodies and agencies.
- 3. Explain industry practices for hazard assessment and control procedures.
- 4. Describe the responsibilities of workers and employers to apply emergency procedures.
- 5. Describe positive tradesperson attitudes with respect to housekeeping, personal protective equipment and emergency procedures.
- 6. Describe the roles and responsibilities of employers and employees with respect to the selection and use of personal protective equipment (PPE).
- 7. Select, use and maintain appropriate PPE for worksite applications.

Outcome: Describe the use of personal protective equipment (PPE) and safe practices for climbing, lifting, rigging and hoisting in this trade.

- 1. Select, use and maintain specialized PPE for climbing, lifting and load moving equipment.
- 2. Describe manual lifting procedures using correct body mechanics.
- 3. Describe rigging hardware and the safety factor associated with each item.
- 4. Select the correct equipment for rigging typical loads.
- 5. Describe hoisting and load moving procedures.

Outcome: Describe the safety practices for hazardous materials and fire protection in this trade.

- 1. Describe the roles, responsibilities features and practices related to the workplace hazardous materials information system (WHMIS) program.
- 2. Describe the three key elements of WHMIS.
- 3. Describe handling, storing and transporting procedures when dealing with hazardous material.
- 4. Describe safe venting procedures when working with hazardous materials.
- 5. Describe fire hazards, classes, procedures and equipment related to fire protection.



D.	Food	Safety	16 Hours	
	Oute	come: Complete an approved public health food safety course.		
	1.	Identify causes of food borne illnesses.		
	2.	Describe dietary allergies and intolerances.		
	3.	Handle food in a safe manner.		
	4.	Maintain a safe and sanitary work place.		
	5.	Describe the basics of Hazard Analysis & Critical Control Points (HACCP) as it relate trade.	s the baker	
E.	Tools,	Equipment and Maintenance	14 Hours	
	Out	come: Identify and use tools and equipment.		
	1.	Identify and demonstrate the correct use and maintenance of tools and equipment.		
	2.	Demonstrate knowledge of location of electrical panels.		
	3.	Demonstrate knowledge of gas, water and equipment shut offs.		
	4.	Demonstrate ability to document and notify appropriate maintenance personnel.		
SE	SECTION TWO:			
Α.	Scalin	g, Tempering and Mixing	34 Hours	
	Out	come: Prepare basic doughs.		
	1.	Prepare a variety of basic doughs and pre-ferment.		
	2.	Describe ingredient function.		
	3.	Identify the functions and various types of yeast.		
	4.	Scale and measure ingredients accurately.		
	5.	Mix and identify optimal dough development.		
	6.	Identify required bench time.		
В.	Dividi	ng, Moulding, Pinning and Proofing	40 Hours	
	Out	come: Demonstrate the ability to develop consistent products.		
	1.	Accurately scale product by hand or with dividing equipment.		
	2.	Determine intermediate proof or retarding time.		
	3.	Shape product by hand.		
	4.	Identify a variety of product shapes and their related pans.		
	5.	Use pinning and moulding equipment.		
	6.	Determine final proof time.		
	7.	Identify correct proof.		

8. Prepare for baking.



FIRST PERIOD

C.	Bakin	g and Frying	20 Hours	
	Out	come: Bake and fry a variety of yeast raised goods.		
	1.	Determine required oven and fryer temperatures.		
	2.	Determine required steam and vent times.		
	3.	Determine baking times.		
	4.	Describe par baking.		
	5.	Identify correct degree of bake for each product.		
	6.	Present and package a variety of finished product.		
D.	Froze	Products	4 Hours	
	Out	come: Prepare and use a variety of frozen yeast raised goods.		
	1.	Identify the differences between fresh and frozen doughs.		
	2.	Identify storage techniques (FIFO).		
	3.	Identify storage temperatures.		
	4.	Preparation of frozen product prior to baking.		
	5.	Determine final proof.		
	6.	Determine baking times.		
	7.	Present a variety of finished product.		
SE	SECTION THREE:COOKIES, CAKES, PASTRIES, & QUICK BREADS			
Α.	Cakes		16 Hours	
	Out	come: Prepare and bake basic cake batters.		
	1.	Identify various cake making techniques.		
	2.	Scale and measure ingredients accurately.		
	3.	Describe ingredient function.		
	4.	Describe ingredient and pan preparation.		
	5.	Identify method of mixing various cake batters.		
	6.			
	0.	Describe leavening agents and their effects.		
	0. 7.	Describe leavening agents and their effects. Determine baking time and temperature.		
В.	7. 8.	Determine baking time and temperature.	16 Hours	
в.	7. 8. Cooki	Determine baking time and temperature. Identify cake faults.	16 Hours	
B.	7. 8. Cooki	Determine baking time and temperature. Identify cake faults. es	16 Hours	
B.	7. 8. Cooki <i>Out</i>	Determine baking time and temperature. Identify cake faults. come: Prepare and bake basic cookie doughs. Produce various types of cookies.	16 Hours	
B.	7. 8. Cooki 0ut	Determine baking time and temperature. Identify cake faults. es	16 Hours	
В.	7. 8. Cooki 1. 2.	Determine baking time and temperature. Identify cake faults. es	16 Hours	
B.	7. 8. Cooki 1. 2. 3.	Determine baking time and temperature. Identify cake faults. come: Prepare and bake basic cookie doughs. Produce various types of cookies. Scale and measure ingredients accurately. Describe ingredient function.	16 Hours	



- 7. Determine baking time and temperature.
- 8. Identify cookie faults.
- 9. Present a variety of finished product.

Outcome: Prepare and bake basic quick breads.

- 1. Produce a variety of quick breads.
- 2. Scale and measure ingredients accurately.
- 3. Describe ingredient function.
- 4. Identify ingredient and equipment preparation.
- 5. Identify various mixing methods.
- 6. Identify fresh, frozen and dried fruit ingredients.
- 7. Demonstrate portioning methods.
- 8. Determine baking and frying times and temperatures.
- 9. Present a variety of finished product.

D. Pastries......10 Hours

Outcome: Prepare and bake basic pastries.

- 1. Produce a variety of basic pastries and cake squares.
- 2. Scale and measure ingredients accurately.
- 3. Describe ingredient function.
- 4. Identify ingredient and equipment preparation.
- 5. Demonstrate various mixing methods.
- 6. Identify various fresh, frozen and dried fruit ingredients.
- 7. Demonstrate portioning methods.
- 8. Determine baking time and temperature.
- 9. Present a variety of finished product.

Outcome: Prepare and use creams and butter creams.

- 1. Prepare various creams and butter creams.
- 2. Describe the uses of creams and butter creams.
- 3. Describe ingredient function.
- 4. Identify ingredient and equipment preparation.
- 5. Describe flavouring and colour agents.
- 6. Describe storage and handling of the product.



FIRST PERIOD

В.	Custa	rds4 Hours
	Out	come: Prepare and cook custards
	1.	Identify ingredients.
	2.	Describe ingredient function.
	3.	Describe ingredient preparation.
	4.	Describe cooking methods.
	5.	Prepare and cook a variety of custards.
	6.	Describe the uses of custards.
	7.	Describe storage and handling of the product.
C.	Filling	js4 Hours
	Out	come: Prepare and cook fillings.
	1.	Identify ingredients.
	2.	Describe ingredient function.
	3.	Describe ingredient preparation.
	4.	Describe cooking methods.
	5.	Describe fresh, frozen and dried ingredients.
	6.	Prepare and cook a variety of fillings.
	7.	Describe the uses of fillings.
	8.	Describe storage and handling of the product.
D.	lcings	and Piping and Decorating16 Hours
	Out	come: Demonstrate the use of icing and piped forms.
	1.	Identify ingredients.
	2.	Describe ingredient function.
	3.	Describe ingredient preparation.
	4.	Describe mixing methods.
	5.	Prepare and use a variety of icings.
	6.	Use a variety of piping tips.
	7.	Perform basic piped shapes.
	8.	Describe the use of icings.

- 9. Identify flavouring and colour agents.
- 10. Describe storage and handling of the product.
- 11. Cut and divide layer cakes.
- 12. Coat, mask and decorate cakes.



SECTION FIVE:		
Α.	Formu	la Calculations
	Outo	come: Perform formula calculations.
	1.	Calculate yields: given recipe, scaling weight and percentage loss.
	2.	Convert recipes to "Bakers Percentage" (ingredients based on flour being 100%).
	3.	Increase or decrease recipes to give a required yield i.e. required/old = new.
В.	Basic	Mathematics
	Out	come: Perform basic mathematic calculations.
	1.	Calculate and convert formulas using the Imperial, Metric and American System.
	2.	Alter formulation to compensate for altitude and water conditions.
	3.	Calculate percentages.
	4.	Calculate ratio and proportion.
	5.	Calculate yeast conversions.
	6.	Calculate ingredient cost, batch cost and overhead costs.
	7.	Calculate mark up, selling price, gross profit and gross margin.
C.	-	erature3 Hours
	Outo	come: Perform temperature calculations.

- 1. Calculate machine friction.
- 2. Calculate required water temperature.



SECOND PERIOD TECHNICAL TRAINING BAKER TRADE COURSE OUTLINE

UPON SUCCESSFUL COMPLETION OF THIS PROGRAM THE APPRENTICE SHOULD BE ABLE TO PERFORM THE FOLLOWING OUTCOMES AND OBJECTIVES.

SE	CTION	ONE:
Α.	SANIT	ATION
	Out	come: Identify and prevent food spoilage.
	1.	Food preservation and storage.
	2.	Microbial spoilage of baked goods.
	3.	Describe the use and types of preservatives.
SE		TWO:YEAST RAISED GOODS
Α.	Scalin	g, Tempering and Mixing27 Hours
	Out	come: Prepare doughs.
	1.	Prepare a variety of dough's and pre-ferments (scratch, premixes and bases).
	2.	Describe ingredient function.
	3.	Prepare ingredients.
	4.	Use appropriate yeast.
	5.	Scale and measure ingredients accurately.
	6.	Calculate required dough temperature (RDT).
	7.	Use required mixer bowl size per dough batch.
	8.	Mix and identify optimal dough development.
	9.	Identify required bench time.
В.	Mould	ing, Sheeting and Proofing35 Hours
	Out	come: Demonstrate the ability to produce consistent products.
	1.	Accurately portion product by hand.
	2.	Shape product by hand.
	3.	Determine intermediate proof or retarding time.
	4.	Produce a variety of product shapes using their related pans.
	5.	Use sheeting/moulding equipment.
	6.	Determine final proof time.
	7.	Demonstrate correct proof.

8. Prepare for baking.



C.	Bakin	g24 Hours
	Out	come: Bake a variety of yeast raised goods
	1.	Determine required oven temperatures.
	2.	Determine required steam and vent times.
	3.	Determine baking times.
	4.	Produce par baked product.
	5.	Prepare product to full bake.
	6.	Present a variety of finished product.
	7.	Identify bread faults.
SE		THREE:
Α.	Yeast	Raised
	Out	come: Prepare and bake a variety of yeast raised laminated product.
	1.	Prepare ingredients and fats.
	2.	Describe ingredient function.
	3.	Use appropriate yeast.
	4.	Identify different formulas and laminating techniques.
	5.	Scale and measure ingredients accurately.
	6.	Calculate required dough temperature (RDT).
	7.	Mix and identify optimal dough development.
	8.	Determine intermediate proof and retarding time.
	9.	Demonstrate procedures for freezing (dough slab, individual portions).
	10.	Present a variety of finished product.
в.	Puff D	ough10 Hours
		come: Prepare laminated puff dough.
	1.	Prepare ingredients and fats.
	2.	Describe ingredient function.
	3.	Identify different formulas and laminating techniques.
	4.	Scale and measure ingredients accurately.
	5.	Use required mixer bowl size per dough batch.
	6.	Mix and identify optimal dough development.
	о. 7.	Determine retarding time between turns.
	8.	Demonstrate procedures for freezing (dough slab, individual portions).
	9.	Bake and present a variety of finished product.



SECOND PERIOD

SE	CTION	FOUR:COOKIES, CAKES, PIES, TARTS, & PASTRIES
Α.	Cakes	16 Hours
	Out	come: Prepare cakes using various production methods.
	1.	Produce a variety of cake batters (hi ratio, angel food, sponge, cheese cake, mousse cake).
	2.	Prepare pans.
	3.	Describe ingredient function.
	4.	Prepare and scale ingredients.
	5.	Mix various cake batters.
	6.	Demonstrate techniques of depositing batters (sheet cakes, layer cakes, cup cakes, angel food).
	7.	Determine baking time and temperature.
	8.	Determine doneness and cooling procedures.
	9.	Identify cake faults.
	10.	Present a variety of finished product.
В.	Cooki	es16 Hours
	Out	come: Prepare a variety of fancy cookies.
	1.	Produce various types of cookies (meringue, short bread, ice box).
	2.	Scale and measure ingredients accurately.
	3.	Describe ingredient function.
	4.	Prepare ingredients.
	5.	Mix cookie doughs.
	6.	Demonstrate all portioning methods.
	7.	Determine baking time, temperature and doneness.
	8.	Identify cookie faults.
	9.	Present a variety of finished and fancy product.
C.	Pies a	nd Tarts12 Hours
	Out	come: Prepare and present pies & tarts.
	1.	Prepare and mix ingredients.
	2.	Describe ingredient function.

- 3. Describe blocking methods.
- 4. Describe par baking crusts/shells.
- 5. Deposit fillings (fruit, cream, mousse, sugar filling, butter tart).
- 6. Determine baking time, temperature and doneness.
- 7. Present a variety of finished product.



D.	Pastrie	2S	12 Hours
	Outcome: Prepare and present pastries.		
	1.	Produce a variety of pastries.	
	2.	Scale and measure ingredients accurately.	
	3.	Describe ingredient function.	
	4.	Identify ingredient and equipment preparation.	
	5.	Identify various mixing methods.	
	6.	Describe fresh, frozen and dried fruit ingredients.	
	7.	Describe of portioning methods.	
	8.	Determine baking time and temperature.	
	9.	Present a variety of finished product.	
SE	CTION F	IVE:CREAMS, FILLINGS, ICINGS, & FINISHES	40 HOURS
Α.	Cream	S	8 Hours
	Oute	come: Prepare creams for fillings.	
	1.	Prepare ingredients.	
	2.	Describe ingredient function.	
	3.	Demonstrate the uses of creams.	
	4.	Mix ingredients.	
	5.	Identify faults.	
	6.	Use flavouring and colour agents.	
	7.	Demonstrate storage and handling of the product.	
в.	Filling	S	8 Hours
υ.	_		
		come: Prepare and cook fillings.	
	1.	Describe ingredient function.	
	2.	Scale and measure ingredients accurately.	
	3.	Mix ingredients.	
	4.	Produce various types of fruit fillings.	
	5.	Produce various types of custard fillings.	
	6. 7	Produce cooked and non-cooked fillings.	
	7.	Demonstrate portioning.	
	8.	Determine cooking time, temperature and doneness.	
	9. 10	Demonstrate storage and handling of the product.	
	10.	Present a variety of product.	



SECOND PERIOD

C.	lcings	and Piping16 Hours
	Out	come: Demonstrate the use of icing and piped forms in the finishing of product.
	1.	Describe ingredient function.
	2.	Mix and pipe a variety of icings.
	3.	Perform piped shapes using a variety of piping tips (flowers, borders, rosettes, lines, writing).
	4.	Demonstrate the use of icings.
	5.	Use flavouring and colour agents.
	6.	Demonstrate storage and handling of the product.
D.	Finish	ing8 Hours
	Out	come: Apply appropriate finishes to product.
	1.	Apply special effects:
		 a) stencils b) airbrush to create unique effects c) edible transfers.
	2.	Use various finishing techniques (coating, dipping, masking).
	3.	Describe basic plating techniques.
SE	CTION	SIX:
A.	Comm	unication
	Out	come: Demonstrate effective communication.
	1.	Develop effective listening skills.
	2.	Be familiar with one way and two way communication.
	3.	Be aware of the many communication barriers.
	4.	Use job seeking skills.
	5.	Identify effective goal setting.
В.	Custo	mer Service
	Out	come: Demonstrate effective customer service.
	1.	Demonstrate effective customer relations.
	2.	Be aware of the effects of customer service in the success or failure of a business.

3. Use effective message taking techniques.



THIRD PERIOD TECHNICAL TRAINING BAKER TRADE COURSE OUTLINE

UPON SUCCESSFUL COMPLETION OF THIS PROGRAM THE APPRENTICE SHOULD BE ABLE TO PERFORM THE FOLLOWING OUTCOMES AND OBJECTIVES.

SE	CTION	ONE:	MANAGEMENT SKILLS	16 HOURS			
Α.	Management Skills6 Hours						
	Oute	come:	Apply management strategies.				
	1.	Promo	te good staff relations.				
	2.	Promo	te team concept.				
	3.	Descril	be various management styles.				
	4. Develop a bakery budget.		ip a bakery budget.				
	5.	Discus	s entrepreneurship and business opportunities.				
В.	Produ	ction Pla	anning	6 Hours			
	Out	come: A	Apply the ability to plan an effective production schedule.				
	1.	Unders	stand process flow and bakery layout.				
	2.	Develo	pp a production schedule.				
	3.	Determ	nine required equipment for production.				
	4.	Identify	y facility limitations.				
	5.	Demor	nstrate staff scheduling.				
	6.	Recog	nize staff abilities.				
C.	Regul	ations		2 Hours			
	Out	Dutcome: Have an awareness of Provincial and Federal regulations.					
	1.	Descril	be the government regulations for the Alberta Employment Standards Act.				
	2.	Descril	be the government regulations for Provincial legislation.				
	3.	Descril	be the government regulations for the Worker's Compensation Board (WCB).				
	4.	Descril	be the government regulations for Canadian Food Inspection Agency (CFIA).				
D. Merchandising			g	2 Hours			
	Out	Outcome: Understand the importance of product promotion.					
	1.	Demor	nstrate merchandising.				

- 2. Describe various packaging.
- 3. Use product sampling.



SE		TWOYEAST-RAISED GOODS	116 HOURS
Α.	Scalir	40 Hours	
	Out	tcome: Prepare specialty yeast raised products.	
	1.	Prepare advance doughs and pre-ferments.	
	2.	Prepare ingredients.	
	3.	Describe ingredient function.	
	4.	Use appropriate yeast.	
	5.	Scale and measure ingredients accurately.	
	6.	Calculate required dough temperature (RDT).	
	7.	Mix and identify optimal dough development.	
	8.	Identify required bench time.	
В.	Moulo	ding, Sheeting and Proofing	52 Hours
	Out	tcome: Demonstrate the ability to develop consistent products.	
	1.	Accurately scale product by hand.	
	2.	Shape product by hand.	
	3.	Determine intermediate proof or retarding time.	
	4.	Identify a variety of product shapes and their related pans.	
	5.	Use dividing equipment.	
	6.	Use moulding equipment.	
	7.	Use sheeting equipment.	
	8.	Determine final proof time.	
	9.	Demonstrate correct proof.	
	10.	Prepare for baking.	
C.	Bakin	ng	24 Hours
		tcome: Bake specialty yeast raised goods.	
	1.	Determine required oven temperatures.	
	2.	Determine required steam and vent times.	
	3.	Determine baking times.	
	4.	Produce par baked product.	
	5.	Prepare product to full bake.	
	6.	Present a variety of finished product.	
	7.	Identify bread faults.	



THIRD PERIOD

SECTI	ON THREE:	SAVORIES, CAKES, & PASTRIES	54 HOURS
A. S	avoury Items		8 Hours
	Outcome: Produce	a variety of savoury products.	
	1. Describe ingred		
	2. Prepare ingred	ients.	
	3. Prepare variou	s savoury products.	
	4. Bake various s	avoury products.	
	5. Demonstrate fo	ood safe procedures.	
B. A	dvanced Cakes and	Pastries	12 Hours
	Outcome: Prepare	a variety advanced cakes and pastries.	
	1. Describe ingred	dient function.	
	2. Prepare ingred	ients.	
	3. Prepare various	s advanced cakes and pastries products.	
	4. Bake various a	dvanced cakes and pastries products.	
c. w	edding Cakes		16 Hours
	Outcome: Prepare	and present a finished wedding cake.	
	1. Prepare a tiere	d wedding cake.	
D. C	houx Paste		6 Hours
	Outcome: Prepare	choux paste.	
	1. Describe ingred	dient function.	
	2. Prepare ingred	ients.	
	3. Prepare various	s choux paste products.	
	4. Bake various c	houx paste products.	
	5. Identify choux f	aults.	
E. D	ecorated Cakes		12 Hours
	Outcome: Decorate	e cakes and specialty tortes using a variety of sty	les.
	1. Present a cake	with borders, flowers and writing.	
	2. Apply air brush	ing techniques.	
	3. Decorate with a	almond paste.	
SECTI	ON FOUR:	CHOCOLATE & CONFECTIONS	19 HOURS
A. C	hocolate		6 Hours
	Outcome: Prepare	chocolate for use in a variety of applications.	
	1. Identify the diffe	erent types of chocolate.	
	2. Describe ingred	lient function.	
	3. Temper couver	ture chocolate.	
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- 4. Use covertures and compound chocolate.
- 5. Prepare ganache.
- 6. Prepare modeling chocolate.
- 7. Prepare piping chocolate.

Outcome: Identify the preparation of various confections.

- 1. Identify boiling stages and temperatures.
- 2. Identify effects of acids and invert sugars and their applications.
- 3. Identify types of confections such as fudge, caramels, gelées, candied peels and soft and hard candies.
- 4. Identify ingredients such as flavourings and colourings.

C. Sugar Modeling......7 Hours

Outcome: Identify sugar modeling techniques.

- 1. Identify various ingredients for cooking sugar.
- 2. Identify storage procedures for sugar and showpieces.
- 3. Observe basic pulling techniques.
- 4. Observe sugar blowing techniques, piping, spun sugar, casting and flower making.
- 5. Identify tools and equipment.

Outcome: Describe the assembly of components for desserts, ice creams and sorbets.

- 1. Identify alcohol, sugar and fat content.
- 2. Describe ingredient function.
- 3. Describe formulations for syrup and custard bases.
- 4. Identify flavourings for bases.
- 5. Describe overrun.
- 6. Identify desired end product.
- 7. Describe holding and long term storage temperature.

Outcome: Prepare frozen desserts.

- 1. Identify frozen desserts such as parfaits, frozen soufflés and bombes.
- 2. Describe frozen dessert components.
- 3. Describe the effects of freezing on food product characteristics such as texture and flavour.
- 4. Assembles components for frozen desserts.
- 5. Ability to un-mould frozen desserts.



- 6. Ability to store finished products.
- 7. Present a variety of frozen desserts.

Outcome: Prepare and present a variety of plated desserts.

- 1. Plans plate design.
- 2. Identify plate balance such as height, focal point, textures, flavours and number of components.
- 3. Prepares components.
- 4. Describe portion control.
- 5. Ability to follow plate design plan.
- 6. Ability to apply sauces and garnishes in an attractive manner.
- 7. Present a variety of plated desserts.

Outcome: Describe the nutritional importance of ingredients.

- 1. Describe the nutritional importance of fat and edible oil.
- 2. Describe the nutritional importance of proteins.
- 3. Describe the nutritional importance of carbohydrates.
- 4. Describe the nutritional importance of water.
- 5. Describe the nutritional importance of fibre.
- 6. Describe the nutritional importance of sugars.

Outcome: Be familiar with the Canada Food Guide and dietary options.

- 1. Describe the vegetarian diets.
- 2. Describe ethnic and religious diets.
- 3. Describe natural and organic food production.
- 4. Describe modified food production.
- 5. Describe dietary allergies and intolerances.
- 6. Describe dietary options and restrictions.
- 7. Modify formulas according to dietary concerns.
- 8. Interpret food labelling terminology.

Outcome: Identify and understand food labels.

- 1. List labelling requirements.
- 2. Identify required nutritional information.
- 3. Ability to understand food labels.



SECTION SEVEN:ADVISORY NETWORK & WORKPLACE COACHING SKILLS					
Α.	Workplace Coaching Skills1 Hours				
	Outc	ome: Display coaching skills.			
	1.	Describe coaching skills used for training apprentices.			
В.	Advisory Network1 Hours				
	Outc	ome: Describe the advisory network.			
	1.	Explain the role and purpose of the advisory network, local apprenticeship committees and the provincial apprenticeship committee.			
C.	Interprovincial Standards1 Hours				
	Outcome: Discuss Red Seal / Interprovincial standards.				
	1.	Describe the National Occupational Analysis. (NOA).			
	2.	Describe the relationship between the NOA and Red Seal / Interprovincial examinations.			
	3.	Discuss the roles of federal and provincial government in the development of Red Seal standards.			
	4.	Discuss the role of industry in the development of Red Seal standards.			
	5.	Explain the intent of the Red Seal examination as it relates to interprovincial mobility.			

6. Describe sources of information on Red Seal standards and practice examinations.





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