JUPITER PRIME
Consulting • Training • Advisory
جوبيتر برايم للاستشارات والتدريب

COURSE BROCHURE

Modern Culinary Techniques and Precision Cooking Training Course

15 – 26 November 2026
Amman

Modern Culinary Techniques and Precision Cooking Training Course

Ref: 311_10433 **Date:** 15 – 26 November 2026 **Location:** Amman **Fees:** 6000 GBP

Modern Culinary Techniques and Precision Cooking is a 2-week training course for sous chefs, chefs de partie, head chefs and culinary instructors who run hot and cold sections in hotels, restaurants and catering kitchens, and each participant leaves with a costed tasting menu backed by standardised recipes. Diners now expect consistent texture and flavour on every plate while food costs climb. Jupiter Prime Training runs this course for kitchen brigades raising technical standards.

Why Modern Culinary Techniques and Precision Cooking Matter Now

Three pressures reshape professional kitchens today: guests who photograph and compare every dish, food and energy costs that punish waste, and a shortage of skilled cooks that forces kitchens to rely on repeatable methods rather than individual flair. A brigade that controls temperature, time and yield serves the same plate on the busiest night as on the quietest; one that does not loses margin and reputation together. The course builds every technique on Hazard Analysis and Critical Control Points HACCP principles, alongside standardised recipe costing and yield testing practice used in hotel and restaurant kitchens.

Who Gains Most from Modern Culinary Techniques and Precision Cooking

- Section chefs who run sauce, larder, grill or pastry stations during service
- Kitchen leaders who design menus and train brigades on new techniques
- Culinary instructors who teach professional cookery to apprentices and cooks
- Banqueting and production chefs who scale dishes for large covers
- Food safety leads who validate cooking, chilling and holding methods

A hotel or restaurant brigade gains most when its head chef and two or three section chefs attend together and return with one shared recipe standard.

Modern Culinary Techniques and Precision Cooking Capabilities

Participants connect each technique to its temperature curve, its yield and its effect on the cost of the final plate.

- Apply sous vide and low-temperature cooking with validated time and temperature tables — food safety leads
- Build stock, sauce and emulsion systems that hold through service — section chefs
- Design fermentation and curing processes with controlled acidity and salt — menu development
- Calculate butchery and trim yields to set portion costs — head chefs and purchasing
- Specify modern plating and texture contrasts for each course — guest perception
- Test a costed tasting menu with standardised recipes — kitchen leadership and owners

Key Modern Culinary Techniques and Precision Cooking Terms

- Sous vide — cooking vacuum-sealed food in a water bath held at a precise temperature for a set time.
- Core temperature — the temperature at the thickest part of a food, used to confirm doneness and pasteurisation.
- Emulsion — a stable mix of fat and water held together by an emulsifier, such as hollandaise or a vinaigrette.
- Yield test — weighing a product before and after trimming and cooking to find the usable portion and its true cost.
- Standardised recipe — a fixed recipe stating quantities, method, portion size and cost so every cook produces the same dish.
- Critical control point — a step in food preparation where a control prevents or removes a food safety hazard.

Modern Culinary Techniques and Precision Cooking Day by Day

Day 1: Kitchen Context and Flavour Science

- Guest Expectations and Dish Consistency Pressures — Menu Positioning
- Maillard Reaction, Caramelisation and Protein Denaturation — Heat Choices
- Taste Balance of Salt, Acid, Sweet and Umami — Seasoning Decisions
- Food Cost and Waste Trends in Kitchens — Technique Selection
- Brigade Skills Mapping for Modern Methods — Training Priorities

Day 2: Stocks, Sauces and Emulsions

- Brown and White Stock Systems With Reduction Ratios — Sauce Base Quality
- Mother Sauces and Modern Derivatives — Menu Flexibility
- Hot and Cold Emulsions With Stabilisers — Service Holding Time
- Gels, Foams and Hydrocolloids — Texture Contrast Choices
- Sauce Batch Production and Chilling — Section Readiness

Day 3: Sous Vide and Low-Temperature Cooking

- Vacuum Packing and Bag Selection — Product Integrity
- Time and Temperature Tables for Meat, Fish and Vegetables — Doneness Targets
- Pasteurisation Logic and Core Probing — Safety Validation
- Cook-Chill and Regeneration for Banqueting — Volume Service Planning
- Finishing Methods After Sous Vide — Crust and Colour

Day 4: Butchery, Fish Preparation and Yield

- Primal and Sub-Primal Breakdown of Beef and Lamb — Portion Costing
- Poultry Fabrication and Deboning — Product Utilisation
- Round and Flat Fish Filleting — Yield and Presentation
- Yield Testing and Trim Utilisation — Purchasing Specifications
- Dry Ageing and Brining Methods — Flavour and Tenderness

Day 5: Fermentation, Curing and Preservation

- Lacto-Fermentation of Vegetables — Acidity Control
- Koji, Miso-Style Pastes and Fermented Sauces — Umami Building
- Salt Curing and Cold Smoking of Fish and Meat — Shelf-Life Decisions
- Pickling and Preserving Seasonal Produce — Waste Reduction
- Fermentation Safety Monitoring and pH Checks — Hazard Control

Day 6: Vegetables, Grains and Plant-Based Cuisine

- Vegetable Cutting and Cooking Methods for Texture — Plate Composition
- Plant-Based Protein Dishes — Menu Inclusivity
- Grains, Legumes and Ancient Seeds Preparation — Nutrition and Cost
- Smoking, Charring and Roasting Vegetables — Flavour Depth
- Allergen-Aware Recipe Adaptation — Guest Safety

Day 7: Pastry Techniques for the Hot Kitchen

- Tempering Chocolate and Sugar Work Basics — Dessert Finishing
- Crémeux, Mousse and Set Cream Methods — Dessert Texture
- Laminated and Short Pastry Applications — Savoury and Sweet Use
- Frozen Desserts and Sorbet Balancing — Sugar and Solids Ratios
- Pre-Dessert and Petit Four Design — Menu Rhythm

Day 8: Modern Plating and Menu Design

- Plating Composition, Colour and Height — Visual Impact
- Texture Layering and Temperature Contrast — Eating Experience
- Tasting Menu Sequencing and Portion Sizes — Guest Pace
- Menu Description Writing for Diners — Expectation Setting
- Photography-Ready Presentation for Social Media — Reputation

Day 9: HACCP Kitchen Controls and Costing

- HACCP Plans for Cook, Chill, Hold and Reheat — Critical Limits
- Temperature Logs and Probe Calibration — Verification Records
- Standardised Recipe Cards and Portion Control — Cost Consistency
- Recipe Costing and Gross Profit Targets — Menu Pricing
- Kitchen Workflow and Mise en Place Planning — Service Efficiency

Day 10: Practising the Costed Tasting Menu

- Sauce and Emulsion Systems Applied to Menu Dishes — Flavour Base
- Precision Cooking Applied to Main Courses — Doneness Control
- Fermentation and Plating Applied to Courses — Signature Elements
- HACCP Controls and Yields Applied to the Menu — Safety and Cost
- Costed Tasting Menu Completed and Presented — Head Chef Approval

Applying Modern Culinary Techniques and Precision Cooking After the Course

- Run yield tests on the three highest-cost proteins on the current menu and update their standardised recipe cards and portion costs
- Write a HACCP-based time and temperature table for one sous vide dish and train the section on probing and logging

Modern Culinary Techniques and Precision Cooking Questions FAQ

What are Modern Culinary Techniques and Precision Cooking and why do they matter now?

Modern Culinary Techniques and Precision Cooking are methods such as sous vide, fermentation, emulsions and yield-based costing that give consistent results. They matter now because guests expect identical plates every service while food costs and labour shortages leave no room for waste.

Which roles gain most from Modern Culinary Techniques and Precision Cooking?

Sous chefs, chefs de partie, head chefs, banqueting chefs and culinary instructors gain most. Each of them sets recipes, trains cooks or controls a section where temperature, timing and yield decide quality and cost.

How do Modern Culinary Techniques and Precision Cooking differ from a foundation culinary arts course?

A foundation culinary course teaches knife skills and classical methods to new cooks. This advanced subject assumes those basics and focuses on precision cooking, fermentation, modern plating, HACCP validation and costing for experienced chefs.

What do you bring back from Modern Culinary Techniques and Precision Cooking?

You bring back a costed tasting menu with standardised recipes, yields, HACCP controls and plating guides, ready to test with your brigade and present to your head chef or owner.

Modern Culinary Techniques and Precision Cooking: The Way Forward

The costed tasting menu first informs which dishes move onto the next seasonal menu and at what portion cost. Head chefs and section chefs use it to train cooks and to brief service staff. After its first use, the yield and costing assumptions deserve a second look, because supplier changes and trim losses shift gross profit faster than any plating decision.