

Pool Operator Primer (POP) Course

Course Outline

Lesson Plan

Pre-Course Acknowledgment

Lesson 1: Introduction to Pool & Spa Management-See Chapters 1-2 Pool & Spa Operator Handbook (PSOH)

Section 1: Introduction

Section 2: Pool and Spa Management

Section 3: Regulations and Standards

POP Lesson 1 – Introduction to Pool & Spa Management – Exam

Key Topics-Main Drain visibility, Standard of Care, Negligence, Safety Data Sheets

Lesson 2: Essential Calculations-See Ch 3 PSOH

Section 1: Introduction

Section 2: Amount Conversions

Section 3: Surface Area/Volume Calculations

POP Lesson 2 – Essential Calculations - Exam

Key Topics-Volume Calculation

Lesson 3: Contamination, Water Problems, and Disinfection-See Ch 4-7 PSOH

Section 1: Introduction

Section 2: Pool Water Contamination

Section 3: Disinfection

Section 4: Water Balance

Section 5: Water Problems and Dosage

POP Lesson 3 - Contamination, Water Problems, and Disinfection - Exam

Key Topics-Formed Stool and Diarrhea Response, Legionella, Disinfectant, Combined Chlorine, Low pH Chlorine, Cyanuric Acid, Lowering pH, pH Lock, Raising Alkalinity, Galvanic Corrosion, Saturation Index Calculation, Chemistry Adjustment Calculations, Breakpoint chlorination, Green Cloudy Water, Algae Prevention

Lesson 4: Pool and Spa Water Chemistry-See Ch 8-9 PSOH

Section 1: Introduction

Section 2: Chemical Feed and Control

Section 3: Chemical Testing

POP Lesson 4: Pool and Spa Water Chemistry – Exam

Key Topics-Water Sample Collection, FAS-DPD Testing, ORP, Testing pH, Lowering Chlorine, Erosion Chemical Feeder

Lesson 5: Water Circulation and Filtration-See Ch 10-12 PSOH

Section 1: Introduction

Section 2: Circulation

Section 3: Filtration

Section 4: Heating and Energy Loss

Section 5: Air Circulation

POP Lesson 5: - Water Circulation and Filtration - Exam

Key Topics-Flow Rate Calculation, Circulation, Vacuum Gauge, Diatomaceous Earth, Exceeding Filter Media Rate, Backwashing Sand Filters, Cleaning Filter Cartridges, Evaporation, Indoor Pool Air Exchange Rate

Lesson 6: Spas, Hot Tubs, and Therapy Pools-See Ch 13 PSOH

Section 1: Introduction

Section 2: Benefits/Concerns

Section 3: Operational/Maintenance Considerations

Section 4: Risks

Section 5: Guidelines for Safe Use

POP Lesson 6 - Water Circulation and Filtration - Exam

Key Topics-Max Spa Temp

Lesson 7: Facility Safety and Recordkeeping-See Ch 14-15 PSOH

Section 1: Introduction

Section 2: Facility Safety

Section 3: Pool and Spa Safety Act

Section 4: Keeping Records

POP Lesson 7 - Facility Safety and Recordkeeping - Exam

Key Topics-Suction Entrapment, Drain Covers, Preventing Electrocution, Emergency Response Plans

Lesson 8: Maintenance-See Ch 16-18 PSOH

Section 1: Introduction

Section 2: Maintenance Systems

Section 3: Troubleshooting

Section 4: Facility Renovation

POP Lesson 8 – Maintenance – Exam

Key Topics-Opening and Closing Checklist, Broken Laterals-Sand Filter

Post-Course Acknowledgment

Upon successful completion of the online POP course, students need to email their Certificate of Completion to the instructor in order to come to the “in-person” class.