REFERENCE SYLLABUS

For

Water Treatment Operator (1st Class)
Introduction

This Syllabus is intended to assist candidates studying for the Water Treatment Operator (1st Class) Examination.

Recommended Study Program:
It is recommended that, before undertaking this examination, the candidate completes Power Engineering Course of study, offered through a recognized and approved technical institute or training provider which addresses the Syllabus Outline.
Reference Syllabus for Water Treatment Operator (2nd Class) Examination Candidates

Major Topic: Water Treatment Theory

Topic 1 Water Chemistry and Analysis

Major Topic: Water Pre-Treatment

Topic 2 Water Pre-Treatment I
Topic 3 Water Pre-Treatment II

Major Topic: Boiler Water Treatment

Topic 4 Internal Water Treatment I
Topic 5 Internal Water Treatment II

Major Topic: Water Treatment in Auxiliary Systems

Topic 6 Wastewater Treatment
Topic 7 Non-Boiler Water Treatment
REFERENCE SYLLABUS

For

Water Treatment Operator (2nd Class)
Introduction

This Syllabus is intended to assist candidates studying for the Water Treatment Operator (2nd Class) Examination.

Recommended Study Program:
It is recommended that, before undertaking this examination, the candidate completes Power Engineering Course of study, offered through a recognized and approved technical institute or training provider which addresses the Syllabus Outline.
Reference Syllabus for Water Treatment Operator (2nd Class) Examination Candidates

Major Topic: Water Pre-Treatment

Topic 1 External Boiler Water Treatment
Topic 2 Boiler Water Pretreatment
Topic 3 Condensate Treatment

Major Topic: Boiler Water Treatment

Topic 4 Internal Boiler Water Treatment

Major Topic: Water Treatment in Auxiliary Systems

Topic 5 Cooling Tower and Condenser Water Treatment
Topic 6 Recirculating System Water Treatment
REFERENCE SYLLABUS

For

Water Treatment Operator (Plant Manager)
Introduction

This Syllabus is intended to assist candidates studying for the Water Treatment Operator (Plant Manager) Examination.

Recommended Study Program:
It is recommended that, before undertaking this examination, the candidate completes Power Engineering Course of study, offered through a recognized and approved technical institute or training provider which addresses the Syllabus Outline.
Reference Syllabus for Water Treatment Operator (Plant Manager) Examination Candidates

Major Topic: **Water Treatment Theory**

*Topic 1 Corrosion, Chemistry, and Processes*
*Topic 2 Boiler Corrosion*
*Topic 3 Corrosion, Monitoring, and Prevention Techniques*
*Topic 4 Corrosion Prevention Programs*

Major Topic: **Water Pre-Treatment**

*Topic 5 Water Pre-Treatment*

Major Topic: **Water Treatment**

*Topic 6 Internal Water Treatment*

Major Topic: **Water Treatment in Auxiliary Systems**

*Topic 7 Non-Boiler Water Treatment*

Major Topic: **Water Treatment Management**

*Topic 7 Water Treatment Management*