

Facilities Maintenance Engineer

FACULTY

Dale Trombley, 253.680.7448, dtrombley@bates.ctc.edu

Students prepare for careers in the building care and maintenance industry, including boiler operator, building repairer, facilities maintenance engineer, and custodian in industrial and office buildings, hotels, schools, and government agencies. Instruction includes electricity, welding, blueprint reading, machine maintenance, groundskeeping, appliance repair, boiler repair and operation, HVAC/R, and advanced industry applications. Major elements of the program prepare students for Class IV and Class V boiler operator/fireman certification. This is a pre-apprenticeship program for the Western Washington Operating Engineers Facilities Custodial Services Apprenticeship Committee and the Western Washington Stationary Engineers Apprenticeship Committee. The program also provides extended learning opportunities for persons previously or currently employed in these or other related professions.

Note: Through an Opportunity Grant, special tuition and book funding is available to assist low-income adult students entering this program. Contact Ramon Burton, 253.680.7544, for more information.

Associate of Technology Degree: 108 credits

Facilities Maintenance Engineer

Completion Range: 16-19 Months

	<u>Credits/Hours</u>
100-level or> Computer Literacy	6/100
BUIMT 091 Occupational Human Relations	1.5/25
BUIMT 092 Occupational Communications	2/30
BUIMT 093 Occupational Math Principles	2.5/40
BUIMT 094 Safety Principles, Procedures	2.5/40
BUIMT 095 Fundamentals of Electricity	2/35
BUIMT 097 Pre-Apprenticeship Welding	11/180
BUIMT 106 Blueprint Fundamentals	9/150
BUIMT 108 Mechanical and Machine Maintenance	15/245
BUIMT 109 Building Maintenance, Remodel, Repair	12/195
BUIMT 110 Performing Custodial Functions	4.5/75
BUIMT 111 Grounds Keeping	5/80
BUIMT 112 Maintaining Electrical Service	4/65
BUIMT 113 Maintaining HVAC Systems	5.5/90
BUIMT 115 Introduction to Appliance Repair	8/130
BUIMT 214 Boiler Operations and Certification	12/200
BUIMT 225 Advanced Boiler Operations	6/100
BUIMT 231 Applied Appliance Repair	18/300
BUIMT 261 Advanced Industry Applications I	8/135
BUIMT 262 Advanced Industry Applications II	5.5/90
BUIMT 263 Advanced Industry Applications III	8/135

General Education Requirements

	<u>Credits</u>
100-level or> Human Relations – HREL, PSYCH, SOC or CMST	5
100-level or> Communications – ENGL or CMST	5
100-level or> Mathematics – MATH	5

Certificate of Competency: 65 credits

Building Care & Maintenance

Completion Range: 9-13 Months

	<u>Credits/Hours</u>
BUIMT 091 Occupational Human Relations	1.5/25
BUIMT 092 Occupational Communications	2/30
BUIMT 093 Occupational Math Principles	2.5/40
BUIMT 094 Safety Principles, Procedures	2.5/40
BUIMT 095 Fundamentals of Electricity	2/35
BUIMT 106 Blueprint Fundamentals	9/150
BUIMT 108 Mechanical and Machine Maintenance	15/245
BUIMT 109 Building Maintenance, Remodel, and Repair	12/195
BUIMT 110 Performing Custodial Functions	4.5/75
BUIMT 111 Grounds Keeping	5/80

General Education Requirements

	<u>Credits</u>
90-level or> Human Relations – HREL, PSYCH, SOC or CMST	3
90-level or> Communications – ENGL or CMST	3
90-level or> Mathematics – MATH	3

90-level credit units apply toward meeting certificate requirements, but do not apply toward degree requirements.

Certificate of Training: 13.5 credits

Boiler Operations

Completion Range: 7 Weeks

	<u>Credits/Hours</u>
BUIMT 091 Occupational Human Relations	1.5/25
BUIMT 214 Boiler Operations & Certification	12/200