



www.rmctc.org

The Building Property Maintenance Program

CIP 46.0401

Instructor: Mark Holtzman

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Have Questions?

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Prices listed are subject to change.

* *Additional information about these items can be found in the Student Handbook*

It is the policy of Reading Muhlenberg CTC not to discriminate on the basis of sex, handicap, race and national origin in its educational and vocational programs, activities, or employment as required by the Title IX, Section 504, and Title VI.

READING MUHLENBERG CAREER & TECHNOLOGY CENTER

MISSION STATEMENT

The Reading Muhlenberg Career & Technology Center, in partnership with our diverse community, sponsoring districts, and business and industry, is committed to providing quality career and technical education, resulting in opportunities for students to gain employment, pursue post-secondary education, and develop an appreciation for lifelong learning.

VISION STATEMENT

To empower Reading Muhlenberg Career & Technology Center students with the technical knowledge and skills to confidently pursue a career.

BELIEFS

- We believe in valuing the diversity of each student
- We believe education leads to opportunity
- We believe quality education starts with quality leadership
- We believe a career and technical education is a critical component of workforce development
- We believe technology is vital to learning and will help students connect with a rapidly changing world
- We believe technology must be embraced by teachers as a tool to help prepare students to meet current and future labor market demands
- We believe in providing all students with a positive educational experience
- We believe students should feel proud of what they have accomplished each day
- We believe students will be provided the opportunity to achieve their highest potential
- We believe students will be provided the opportunity to acquire and cultivate leadership skills
- We believe in providing students with a safe school environment
- We believe the success of a student is enhanced by parents and/or other influential adults through their support and involvement
- We believe in encouraging students to maintain a lifelong affiliation with the school
- We believe change is an ongoing process, not an event, and is fundamental for building quality programs of study
- We believe instruction must accommodate individual student learning styles

BUILDING & PROPERTY MAINTENANCE – BPM

- Construct, erect, install, and repair all residential building components.
- Operate power tools, interpret construction documents, produce estimates and evaluate & perform project cost analysis.
- Earn industry-recognized, valuable certifications, such as OSHA, PBA, and Fork Lift certifications.
- Fabricate and machine metal materials including welding & manual machining.



Job Titles – Career Pathways

- 13-1051 Cost Estimator
- 47-2061 Construction Laborers
- 47-2152 Plumbers, Pipefitters and Steamfitters
- 47-3012 Helpers -- Carpenters
- 47-3013 Helpers -- Electricians
- 49-9042 Maintenance and Repair Workers, General
- 49-9098 Helpers -- Installation, Maintenance, and Repair Workers
- 51-4121 Welders, Cutters, Solderers, and Brazers

CTC knowledge transfers to college credits at:

Commonwealth Technical Institute
Community College of Allegheny County
Luzerne County Community College
Orleans Technical Institute
Penn College of Technology

Student Certifications

NOCTI – National Occupational Competency Testing Institute Certification
* Building Property Maintenance
OSHA - Safety Certification
PBA - Pennsylvania Builders Association

Accreditations

PBA - Pennsylvania Builders Association



INSTRUCTOR - Mr. Mark Holtzman

Biography

I am a lifelong resident of Berks County. I began my career in the construction field when I was a senior in high school. I continued my career into residential construction where I framed and fashioned houses. I decided to go to college to study construction management and get into the commercial market. After leaving Millersville University, I worked at various different constructions companies working in commercial/industrial and correctional field. I have attained job in the construction industry from laborer to general manager.

Education

Temple University - Vocational I Teaching Certification
Millersville University – Applied Engineering

Certifications & Awards

OSHA 30 Construction Safety
Cert Lift Truck Trainer

Work Experience

I have worked for companies specializing in all areas of building construction including: Construction/Maintainer and Repair of Residential, Commercial, Industrial and Correctional

Hire Date 2010

Dear Parents,

I would like to introduce myself and the Building Property Maintenance (BPM) course that I will be instructing. My name is Mark Holtzman and I am a lifelong resident of Reading, Pennsylvania. I was very interested in construction and the mechanics of how things work from an early age. I attended Millersville University to further my education and expand my knowledge base in Industrial Technology. My work experience and educational background has prepared me to teach students in the skills of carpentry, electrical, plumbing, welding, landscaping, commercial and residential construction, and general property maintenance.

Students enrolling in BPM will be taught trade skills through a hands on learning process. This instructional format will allow students to experience firsthand construction and maintenance within class projects. Coupled with hands on learning, each student will receive individual attention with a focus on theory and skill development. The additional theory to be addressed includes basic mathematical, logical, scientific, and verbal skills.

As a course that prepares students for working in a professional field, students are expected to maintain professional and responsible work ethics and habits. Students should arrive on time to class and be prepared for instruction. Additionally, students are expected to interact with peers in a respectful manner.

There is no mandatory uniform for students. However, for safety measures, students must be prepared to dress for class in long pants (no sweatpants), boots, and a shirt with sleeves. Time will be made available for students to change every day.

I look forward to meeting my students, and being in touch with you. I appreciate your involvement in your child's learning. If you have any questions please do not hesitate to contact me at 610-921-7300 or by email at mholtzman@rmctc.org.

Sincerely,

Mark Holtzman
BPM Instructor

Building Property Maintenance Behavior and Safety Rules

1. You must wear safety glasses, cover goggles, or face shields after entering the shop.
2. Boots must be worn in the shop. No one **wearing sandals** will be allowed to enter any shop area. The minimum footwear must cover the entire foot.
3. Do not operate any equipment unless you are familiar with its operation and have been authorized to operate it. Questions regarding the use of equipment should be directed to the shop instructor.
4. No work may be performed using power tools unless at least two people are in the shop area and can see each other.
5. Use the shop vacuum cleaner to remove chips. Never use compressed air guns to clean clothing and hair.
6. In case of injury, no matter how slight, report it to the Instructor.
7. Contact with harmful chemicals should be reported immediately to the instructor.
8. Machines must be shut off and locked-out before servicing.
9. Do not wear ties, loose clothing, jewelry, gloves, etc. when operating shop equipment.
10. Wear appropriate clothing for the job (i.e. do not wear short sleeve shirts or short pants when welding.)
11. Do not work in the shop if you are tired, or in a hurry.
12. Never indulge in horseplay in the shop areas.
13. All machines must be operated with all guards and shields in place.
14. Do not use your bare hands to remove chips and shavings from the machine, use a brush or hook.
15. Never use a rag near moving machinery.
16. Do not strike a hardened tool or any machine with a hammer.
17. Practice cleanliness and orderliness in the shop areas. Clean up before you leave!
18. Keep the floor around machines clean, dry and free from trip hazards. Do not allow chips to accumulate. Use the shop vacuum cleaner.
19. Think through the entire job before starting.
20. Before starting a machine, always check it for correct setup and always check to see if the machine is clear.

21. Do not drink alcoholic beverages or use drugs that will alter your state of mind before or during a work session in the machine area. Do not bring food/snacks into the shop. If using medication that will affect you mentally or physically please notify the instructor

22. Don't rush or take chances. Obey all safety rules.

23. If you have not worked with a particular material before, check the materials safety data sheet (M.S.D.S.) for any specific precautions to be taken while working with the material. Also, ask the shop personnel before cutting any unusual material.

24. Heavy sanding and painting should only be done in well ventilated areas.

25. Follow all appropriate precautions when working with solvents, paints, adhesives or other chemicals. Use appropriate protective equipment. Review the M.S.D.S.

26. Check the condition of power cords and plugs on portable tools before using them. Do not use a tool that has a worn or damaged power cord/plug.

27. Always store oily rags in an approved metal container.

I have read, understand, and agree to comply with all safety policies. If I am unclear or unsure of anything I will ask the instructor before I use any industrial machinery.

Parent/ Guardian Name _____

Parent/ Guardian Signature _____

Student Name _____

Student Signature _____

Building and Property Maintenance Tool List

Students enrolled in Building Property Maintenance will receive instruction on how to safely use the following industrial equipment. Students will be tested on the proper use of equipment and general safety. Each student must pass these safety tests with a 100% before having authorization to use the equipment. Students are expected to treat equipment with utmost respect and follow all safety guidelines immediately when entering the Building Property Maintenance classroom limits.

The following is a list of tools on which each student will receive instruction:

- Table Saw
- Horizontal Band Saw
- Vertical Band Saw
- Compound Miter Saw
- Radial Arm Saw
- Belt Sander
- Metal Lathe
- End Mill
- Drill Press
- Vertical Press
- Metal Shear/ Roller/ Pan
- Plasma Cutter
- Mig Welder
- Arc Welder
- Propane/ Acetylene Torch
- Circular Saws
- Corded/Cordless drills
- Nail Guns
- Grinders
- Reciprocating Saw
- Band Saw
- Various Hand Tools

GRADE REPORTING

Purpose: The intent of this grading procedure is to provide a student grade that accurately reflects student achievement. Progress will be measured in the areas of work ethics, and knowledge. All activities and assessments that are required as the student progresses through their skills (learning guides) will be reflected within the knowledge grade. Students will be evaluated according to established program standards on an individual basis. The ClassMate grading software automatically calculates student grades using the following formula:

Work Ethic 40%
Knowledge 60%
100%

Teachers must be able to justify grade percentages in the event of inquiries or concerns.

Interpreting a Grade: The two levels of evaluation are described below:

Work Ethics Grade (40%): Each school day, every student receives a Work Ethics or daily grade. Criteria that comprise these grades are safety, student behavior, preparation/participation, productivity or time on task, professional appearance and extra effort. The Work Ethics grade range is based on a 0 to 10 model that students may earn each day depending on how many criteria they satisfactorily meet.

NOTE: Impact of Absenteeism, Tardiness/Early Dismissals - The direct effect of absenteeism on a students' grade will be through the Work Ethic component of the grading formula. If a student is Tardy or has an Early Dismissal the Work Ethic grade will automatically be defaulted to a five (5) from a possible ten (10) points. The instructor may change this value as they see fit.

Knowledge Grade (60%): Throughout the marking period, a student's cognitive knowledge about various career-specific topics will be evaluated and recorded by the instructor. Examples of knowledge activities include: lab/shop assignments, homework, quizzes, tests, and research activities. The Knowledge grade range is based on actual points earned divided by the total accumulative points.

Task tracking: For the purpose of students earning a job title associated with their program are, teachers track students' skill/task work. Teachers identify specific criteria to evaluate each task performed, ranging from a 0 to 5 (not completed to mastery). Students must earn a 4 or 5, in order to credit the task towards earning the specific job title. Students have the opportunity to revisit a task multiple times until successfully receiving credit. The job titles a student earns will be listed on the student's RMCTC certificate that is awarded at Senior Recognition Night.

GRADE REPORTING (continued)

CTC Letter Conversion Table Grade Letter

100 – 97 A+
96 – 93 A
92 – 90 A-
89 – 87 B+
86 – 83 B
82 – 80 B-
79 – 77 C+
76 – 73 C
72 – 70 C-
69 – 65 D
64 – under F

Final Grade average is based on the student's four (4) numerical marking period grades. The final average will directly align to the letter conversion table listed above.

If a student has three (3) marking period grades of "F" the teacher shall give appropriate consideration to that student not passing for the year. If a student is on an **upward trend** at the end of the school year, this **may** justify having the student pass for the year. If the opposite is true, and the student is on a **downward trend**, the student **should** receive a failing grade.

The individual teacher must evaluate each student's achievement in terms of the expected goals for their program area.

Failure to complete assignments, frequent lateness or absence, and demonstrated indifference to school are major contributors to student failure. **Blatant refusal** to attempt or to complete a significant number of course requirements may, by itself, justify a final course grade of "F".

The following divisions are given as a guide to recording and interpreting the grading system. It remains for each teacher to objectively and fairly rate each student, not based upon personality, but performance.

Determination of Grades: Teachers will give thorough consideration using all grading components in determining students' grades to both class work and test results.

A = Excellent

1. This grade represents **superior work** and is distinctly an honor grade.
2. The excellent student **has reached all course objectives** with high quality achievement.
3. The excellent student displays unusual effort and works willingly and effectively in reaching required objectives.

GRADE REPORTING (continued)

B = Good

1. This grade represents **above average** quality achievements.
2. The good student **has reached a large majority of course objectives.**
3. The good student is industrious and willing to follow directions.

C = Average

1. This grade represents **acceptable** quality achievements.
2. The average student **has reached a majority of course objectives.**
3. The average student is cooperative and follows directions, yet extra effort and improvement are needed for more complete mastering of the material.

D = Passing

1. This grade represents a **minimum acceptable** quality achievement.
2. The student is performing below-average work and **has not reached a majority of course objectives.**
3. This achievement level indicates there is a great need for improvement, daily preparation and improved dedication and attendance.

F = Failure

1. This grade represents **unacceptable** quality achievements.
2. The failing student **has not reached necessary course objectives.**
3. The failing student has not attempted to complete assignments, is constantly late or absent, and generally has failed to accomplish the fundamental minimum essentials necessary in the program area.
4. It may be noted that generally a student does not fail because of a lack of ability; failure may be caused by laziness, non-dedication, or a general disregard to directions of the teacher and the unwillingness to use whatever ability he/she possesses.

Incomplete Grades: Incomplete grades must be updated no later than ten (10) days from the close of the marking period. As soon as the work is completed and the grade is available, it must be reported to the appropriate person.

Failures: Students who receive a failing final grade in a program area are permitted to repeat that program, but are urged not to do so for obvious reasons. If this situation presents itself, students and parents are advised to consider an alternative program which is probably more suited to the student's true interests and aptitudes and not merely satisfying a short-term or unrealistic desire.

Attendance and its Impact upon Grades: The importance of regular school attendance and its positive impact upon a student's performance grade cannot be overstated. If a student is absent, he or she does not have the opportunity to keep pace with their classmates and must work independently to acquire the information missed during any absence. Regardless of how well a student performs when he/she is present, habitual absenteeism usually results in a failing performance grade. This situation is not unlike the conditions of the business or industry for which the student is being trained.

GRADE REPORTING (continued)

Make up Work for Absences: Students have the opportunity to make-up school work due to an illness/being absent from school. **PROVIDED** their absence is excused. Students must submit make-up work within the following timelines:

1. One (1) to three (3) days excused absences – five (5) school days to complete assigned work.
2. Four (4) or more days excused absence – ten (10) school days to complete assigned work.

All work missed through unexcused absences will be graded as a zero

Report Cards (See Progress Reports): Students will receive a report card from the sending school district which will reflect the student's grade from their Career & Technology program. Students will also receive a report card from RMCTC reflecting their program grade and Social Studies grade, where applicable. In addition, grades are available on the parent portal.

Senior Recognition Night: Reading Muhlenberg Career & Technology Center hosts an annual Senior Recognition Night, which honors our senior students. During this event, all senior students in attendance are recognized and may also receive awards that they have earned relevant to their accomplishments while attending Reading Muhlenberg CTC.

PARENT PORTAL: The Parent Portal is available for parents/guardians to view your child's progress by accessing the RMCTC District Portal on the School's web-site; www.rmctc.org. This will give you up to date information related to your child's attendance, grades (work ethic and knowledge), discipline referrals and schedule. In order to use this resource, you must provide the CTC with a current email address and register online.

Log onto www.rmctc.org, click on "**Parents**", then click on "**parent portal**" which will navigate you to the link where you will log into the portal. You will have to "**create an account**" on your first visit to the portal by using your email address (you need to use the email address you provided us on your child's application) and setting up a password. Once registered you may return at any time to view your child's information. Please utilize our website, to track your child's progress by viewing their grades and attendance, along with any discipline action. In addition you will be able to review your child's report cards & progress reports as soon as they are available. You also have the ability to select the option to receive email notifications for specific instances that you choose. You can choose to receive an email automatically if your child is absent/tardy or both, if your child receives a discipline referral or suspension and if your child receives a specific grade.



Reading Muhlenberg CTC
2615 Warren Road
Reading, PA 19604
(610) 921-7300

Student Progress Report - MP 1

Student Name:

Student Address

Reading, PA

Progress Report # : 1
 Sending School:
 Location: Reading Muhlenberg CTC
 Enrollment Date:
 Course:
 Class:
 Instructor:
 Grade:

Questions regarding this report can be answered by calling your child's teacher at (610) 921-7300. If the teacher is not available when you call, please leave your name and telephone number and your call will be returned.

Your child's progress in this class is:

Grade to Date: As of

Knowledge:

Knowledge Comments / Recommendations:

Skill Comments / Recommendations:

Work Ethic/PDP Comments/Recommendations

<u>Attendance Report</u>	<u>Excused Absences</u>	<u>Unexcused Absences</u>	<u>Unexcused Tardy</u>
Year To Date Totals	0.00	0.00	0.00
Current marking period	0.00	0.00	0.00

Instructor's Signature: _____

Issue Date:

Student's Signature: _____

Sign Date: _____

Parent's Signature: _____

Sign Date: _____

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2615 Warren Road
Reading, PA 19604
(610) 921-7300

School Year

ANNUAL EDUCATIONAL AND OCCUPATIONAL OBJECTIVES FOR STUDENTS ENROLLED IN A PDE-APPROVED CAREER AND TECHNICAL EDUCATION (CTE) PROGRAM

INSTRUCTIONS: This form is to be completed each year by students enrolled in a Pennsylvania Department of Education (PDE) approved CTE program with the intent to take further technical instruction offered by the program to achieve a related occupational objective. The scope and sequence for the PDE approved program serves as the educational plan.

Form is to be completed by student and verified and signed by the instructor and guidance /career counselor:

STUDENT'S NAME:

Gender: Birthdate: Current Grade:

SECONDARY SCHOOL OFFERING APPROVED CTE PROGRAM: Reading Muhlenberg CTC

SENDING SCHOOL DISTRICT (for CTCs/AVTSs/Charter Schools):

This student is enrolled in technical instruction offered by the following approved CTE program and associated Classification of Instructional Program (CIP):

PROGRAM NAME: Building/Property Maintenance & Manager CIP Code: 460401

1. Is student enrolled in approved Tech Prep/Program of Study (POS) program technical instruction? Yes or No (Circle one)

2. If yes, is student taking minimum academic coursework per approved Tech Prep/POS program scope and sequence? Yes or No (Circle one)

3. Student's plans following high school graduation include: (Check all that apply) Yes or No (Circle one)

Employment or Military service/training - Specify Branch
Postsecondary education: College Technical School / Proprietary School

4. Student's program-related occupational objective:

Career Pathway

As a student enrolled in this program, my career objective is to prepare for and explore the following career pathway(s).

- Construction Laborers, Cost Estimator, Helpers - Carpenters, Helpers - Electricians, Helpers - Installation, Maintenance, & Repair Workers, Maintenance & Repair Workers, General, Plumbers, Pipefitters, & Steamfitters, Program of Study - SOAR, Welders, Cutters, Solderers, & Brazers

*This information is not auditable by the Office of Auditor General. I understand that this information will become part of my permanent file with Reading Muhlenberg CTC, 2615 Warren Rd., Reading, PA 19604. I also understand that this information will be forwarded to my home school district counseling office.

Student's Signature Date

Counselor's Signature Date

Instructor's Signature Date

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Pennsylvania State Board of Education, Chapter 4 Section 4.31(e) states that a student's record shall include the student's educational and occupational objectives. This form (PDE-408) or similar, locally developed form must be completed and signed each school year by the student enrolled in planned technical courses/instruction offered by the program and must be maintained in school files. The Office of the Auditor General will review student records to determine if the technical courses/instruction taken by the student coincide with the planned courses/instruction documented for the approved CTE program.

46.0401 Building/Property Maintenance & Manager
Building & Property Maintenance

Demonstrate Orientation

Identify School rules, policies, and procedures.
Identify and demonstrate customer service, organization, and problem solving.
Identify and demonstrate basic and shop safety.

Prepare for Maintenance Operations

Identify and demonstrate construction math.
Identify and evaluate blueprints.
Identify and demonstrate hand tools.
Identify and demonstrate power tools.
Identify and define mechanical fasteners, adhesives and caulks.

Demonstrate Electrical Practices

Identify and demonstrate practical electrical theory and safety.
Identify hardware and materials used in building wiring systems.
Identify and demonstrate electrical testing instruments.
Identify requirements for rough in wiring.
Installing various raceways, electrical boxes and cables.
Identify and install switch circuit installation.
Identify and install device installation.
Install and maintain fixtures.
Installing and maintain service panels.

Demonstrate Carpentry Practices

Identify general carpentry procedures.
Identify, repair, and finish floor systems.
Identify, repair, and finish wall and ceiling systems.
Identify, repair, and install trim work systems.
Identify, repair, and install siding and gutter systems.
Identify, repair, and install roof systems.
Identify, repair, and install door and window systems.
Identify, repair, and install surface treatments.

Demonstrate Plumbing

Identify and join plastic pipe.
Identify and join copper pipe.
Identify and define DWV systems.
Identify, repair and install fixtures and fittings.

Demonstrate Maintenance Services

Identify and demonstrate HVAC repair and maintenance.
Identify and demonstrate appliance repair and maintenance.
Identify and define trash compactor and elevator repair and maintenance.
Identify, repair and maintain grounds keeping procedures.

Demonstrate Masonry and Concrete Procedures

Identify, repair, and install brick and block systems.
Identify, repair, and install concrete systems.

Demonstrate Metal Working

Identify and demonstrate metal cutting practices.
Identify and demonstrate metal joining practices.

Masonry and Concrete

Complete OSHA training.

Employability Skills

Establish career goals and develop a plan to meet goals.
Complete a job application.
Compose a resume, reference list and cover letter.
Prepare for a job interview.
Compose various employment letters, i.e. thank you and resignation.
Participate in online career search & develop online accounts.
Create a career portfolio.

PORTFOLIO

All students will be required to create a portfolio to showcase their accomplishments. A portfolio is a collection of work related to education, employment, and self-development.

The Portfolio will contain the following:

- a. Title Page
- b. Table of Contents
- c. Resume with Reference List
- d. Achievements-
 - 1. Awards
 - 2. Certifications
 - 3. Transcripts
 - 4. CTSO information
 - 5. PSC certificates (NOCTI)
- e. Skill Set
 - 1. Task List
 - 2. Certificate of Competency
- f. Work Samples
 - 1. Pictures
 - 2. Writing Samples
 - 3. Videos
- g. Other Related Information
 - 1. Computer Applications
 - 2. Community Activities
 - 3. Talents
 - 4. Sports
 - 5. Clubs

READING-MUHLENBERG CAREER & TECHNOLOGY CENTER

WORK BASED LEARNING Cooperative Education & Internships RULES / GUIDELINES

1. All Work Based Learning (WBL) students must have school WBL forms completed before starting the job/internship, and any student less than 18 years of age must also have a transferable work permit.
2. **ABSENT FROM SCHOOL????? – NO WORK!!!!!!!**
 - If you are absent from school in the morning, you may **NOT** go to work in the afternoon. **YOUR JOB IS PART OF YOUR SCHOOL DAY.** If you are at a **medical, social service, or court appointment** in the AM, you **may** go to work that day. However, you must bring a note **from the agency where you were**, to your attendance secretary, the next school day.
 - If you are ill, **YOU** must call your employer to inform him/her that you will not be reporting for work.
 - **IMPORTANT:** If your name is going to appear, for any reason, on your sending school absentee list, you must also **report off to Mrs. Albarran @ 610-921-7301. Failure to report off will result in removal from WBL.**
 - If **school is closed** for a holiday, in-service day, or a snow day, you **DO** go to work on those days, if you are scheduled.
 - If you are suspended **out of school** you may not work at your WBL job. This includes jobs that are scheduled with after school hours.
 - **REPETITIVE ABSENCES** at school or work will result in your removal from Work Based Learning.
3. All WBL students are required to **report to the CTC every Monday.** Any additional classroom time is at the discretion of your program area teacher. You are responsible for communicating this to your employer. On the **first Monday of each month**, immediately upon arrival, report directly to **Student Services**, where you will sign in with Mrs. Baller. Co-op students will record hours and earnings, and then return to your program area for the remainder of the school day. **Don't forget to bring your check stubs to record your hours and earnings!** Internship students will record hours. **If you miss two Monday meetings, you will be removed from WBL.**
 - Any violations of these rules will result in the following **discipline action:**
 - 1ST violation – VERBAL WARNING**
 - 2nd violation – REMOVAL FROM WORK BASED LEARNING**
6. When at work you are guided by and are responsible to your employer. Be sure to follow all of the Employers' rules and regulations because you will be terminated for the same reasons as any other employee.
7. If your work experience is terminated for any reason, you must return to school the next day, and inform your CTC teacher and the Work Based Learning Coordinator.
8. If you wish to terminate your employment, you must discuss this with your teacher and the Work Based Learning Coordinator, and leave the job properly by giving the employer a two-week notice and a letter of resignation.
9. If you have any questions concerning the rules and guidelines of Work Based Learning, please contact the WBL coordinator at 610-921-7337.

STUDENT SIGNATURE

PARENT/GUARDIAN SIGNATURE

Articulation Agreements

The Reading Muhlenberg Career and Technology Center has agreements with the following:

Commonwealth Technical Institute

Community College of Allegheny County

Luzerne County Community College

Orleans Technical Institute

Penn College of Technology

STUDENTS OCCUPATIONALLY & ACADEMICALLY READY



- *Earn college credits which will save you money on tuition*
 - *Shorten college attendance*
 - *Get on the right career path*
 - *Enter the job market prepared*
 - *Get a consistent education*
- *See your CTC School Counselor for More Information*

TO QUALIFY CTC STUDENTS MUST:

1. Earn a high school diploma, achieve a minimum 2.5 GPA on a 4.0 scale in your CTC program and complete the PDE approved Program of Study.
2. Earn the industry certifications offered by your program (if applicable).
3. Achieve Competent or Advanced on the NOCTI End of Program Assessment.
4. Achieve proficiency on ALL of the Program of Study Competency Task List.
5. Provide documentation to Postsecondary Institution that you have met all of the requirements!

Find out more about the colleges offering course credits you can earn while attending RMCTC. Go to collegetransfer.net, search: PA Bureau of CTE SOAR Programs, and find your program by CIP Code.



**To receive college credits, qualifying students have three years from their date of graduation to apply and matriculate into the related career and technical program at a partnering institution.*

Program Planning Tool

Program Title: CIP 46.0401 BUILDING PROPERTY MAINTENANCE

Student Name: _____

This document has been designed as a tool to facilitate student placement decisions and provides important information about the program. The chart on the reverse side is designed to assist in the identification of necessary skills, present educational levels, and supports, if any, that are needed to foster program success.

Program Completion Requirements

A successful student will...

- Secondary Academic Course Requirements: The PA Dept. of Education's focus is to ensure every student is college and career ready, therefore all students are recommended to follow a college prep sequence of academic classes. Courses such as applied math or general science are not appropriate for this program. PDE's goal is to have all students perform at the competent or advanced level on the Keystone Exams and Program of Study end-of-program assessment (NOCTI).
- Complete an Occupational Competency Assessment (i.e. NOCTI end-of -program exam) and score at the "competent" or "advanced" level. This end-of -program exam will cover the full scope of the program of study curriculum and includes (1) a multiple choice test and (2) a performance test consisting of occupational related tasks scored and evaluated by industry judges.
- Earn a minimum of one industry recognized certification. Students will be encouraged and expected to earn all recognized industry certifications that include scope of the curriculum. Accommodations are not permitted for industry certifications and are OSHA and Pennsylvania Builders Association Skills Certificates.
- Complete the approved program curriculum and earn a minimum of one RMCTC Job Title aligned with the student's career objective. Job titles are identified on the program task list, aligned with local workforce needs and high priority employment occupations, and annually reviewed and approved by the program's occupational advisory committee.
- Successful completion of Keystone Exams as determined by sending school district.
- Maintain a 95% attendance rate or better.
- Transition on to a post-secondary institution, military or related fulltime employment aligned to their CTC program of study.

Instructional Process/Specifications

A successful student will...

- Perform a wide variety of tasks in a laboratory environment with equipment consistent with industry standards. Up to 25 students are assigned to work "independently" and in "small teams". Students progress by using learning guides in a self-directed manner. The laboratory experiences for students in this program include the basics of several building trades. Students will be required to use a variety of hand and power tools that will include hammers, files, wrenches, trowels, power saws, table saws, power drills, drill presses, jointers, routers, blow torches, welding equipment, workshop presses, pipe cutters, and circuit testers.
- Students will also be required to use ladders and scaffolding. Using this equipment requires self-discipline and strict adherence to rules to ensure safety of self and others. The laboratory simulates a real working environment therefore students will be exposed to the noise levels, dust, debris, and fumes associated with the occupation.
- Participate in Career & Technical Student Organizations including HBA, SkillsUSA and/or National Technical Honor Society.
- Participate in a paid or unpaid work based learning related to the Program of Study (cooperative education, clinical internship, and/or job shadowing).
- Participate in classroom theory and laboratory applications for generally 2 ½ hours each day; students will spend 30% of their time in classroom theory and 70% of their time doing laboratory applications and live work.
- Complete written and performance tests (a minimum of one written quiz per week and a minimum of 2 tests per quarter). Students will be evaluated weekly on occupational skill performance using rubrics. Students will also be evaluated daily on work ethics. Progress is measured by test performance, task completion and work ethic.
- Read and study textbooks and technical manuals. Most textbooks are written at a 10th to 11th grade reading level and most technical manuals are written at a higher level.
- Complete homework on time. Homework is issued a minimum of two nights a week and usually can be completed in one hour or less. Homework typically involves chapter or workbook assignments, on line research assignments and at least two five paragraph essays per report period.
- Purchase appropriate work and safety attire, tools, equipment and reference books.

Program Planning Tool

CTE Requirements	Present Educational Ability/Level	Support Needs
<p>Program Completion – Strong self-determination skills and understanding of personal strengths and weaknesses. Ability to meet industry established standards of performance, complete the program of study without curriculum modifications, and earn industry certifications without testing accommodations.</p>		
<p>Reading and Language Arts Level- Text and manuals written on a 10th-11th grade reading level. Proficient on end-of-course exam (Keystone). Must have ability to read, understand and apply engineering science and technology, to include technical plans and blueprints.</p>		
<p>Math Level - At grade level and proficient on end-of-course exam (Keystone). Knowledge of arithmetic, algebra, geometry and their applications. Ability to calculate materials using floor plans, elevations and sectional plans. Ability to apply construction geometry; calculate board and square feet, linear measures, square measures, and cubic measures; convert fractions, decimals, and percents; simplify measurements. Ability to calculate electrical loads and perform electrical mathematics. Ability to do precise measuring and dimensioning according to blueprints and drawings. Ability to use math to solve problems.</p>		
<p>Aptitude – Mechanical, numerical ability, critical thinking, inductive reasoning, visualization and spatial relations. Problem solving and troubleshooting skills.</p>		
<p>Safety & Physical – Manual dexterity, multi-limb coordination while standing, sitting or lying down, arm-hand steadiness and finger dexterity. General body coordination and stamina that requires considerable use of arms, legs and whole body. High degree of self-discipline and focus needed for safety around moving equipment, hand tools, power tools and other equipment found in the industry. Physical strength and stamina with the ability to lift 50 lbs. overhead. Ability to work in all weather conditions, work independently, have good eye/hand coordination, color discrimination, no fear of heights or working in closed spaces.</p>		
<p>Interpersonal/ Social – Active listening, communication skills with supervisors and peers, ability to work alone or cooperatively on a team.</p>		
<p>Other Occupational/Program Considerations – Teamwork, excellent measuring skills, Learning and work environment includes various chemical and wood smells and dust, dirt and debris, loud and sometime startling noises, ongoing background noise, moving people and construction equipment, small spaces, interior or exterior work factors/environmental factors, scaffolding and ladders.</p>		

Scope and Sequence Building Property Maintenance 46.0401

Academic Subjects – Career success and postsecondary education success require the same level of college prep coursework. The Pennsylvania Department of Education’s (PDE) focus is to ensure that every student is prepared for college and a career. Academic courses such as applied math or general science cannot be listed on the program’s scope and sequence. PDE’s goal is to have all students perform at the competent or advanced level on the PSSA, and earn the Pennsylvania Skills Certificate on the end-of-program assessment.

Subject (Hours)	Secondary School				Postsecondary Institution			
	Grade 9 (Hours)	Grade 10 (Hours)	Grade 11 (Hours)	Grade 12 (Hours)	First Semester	Second Semester	Third Semester	Fourth Semester
Technical		Customer Service & Safety	Interpret Blueprints	Electrical Practices	BCT 102: Construction Safety and Equipment	BCT 118: Construction Materials and Applications 1	BCT 234: Masonry Principles	BCT 255: Construction Estimating
		Prepare for Maintenance Occupations	Electrical Practices	Surface Treatments	BCT 103: Construction Hand and Power Tools	BCT 119: Blueprint Reading and Specifications	BCT 238: Concrete Construction	BCT 256: Residential Construction Planning, Schedule
		Electrical Practices	Carpentry Procedures	Plumbing fixtures & fittings	BCT 109: Framing Principles	BCT 127: Roof Framing and Exterior Finishing	BCT 260: Introduction to Electrical and Mechanical	BCT 257: Interior Finish and Trim
		Carpentry Practices	Plumbing	Maintenance Services	BCT 110: Site Preparation and Layout			BCT 258: Computer Applications for Construction
		Plumbing	HVAC & Appliance Repair & Maintenance	Masonry & Concrete	BCT 117: Construction Materials and Applications 1			
		Masonry & Concrete Procedures	Job Seeking/Keeping Skills	Welding & Cutting				
		Job Seeking/Keeping Skills		OSHA				
				Job Seeking/Keeping Skills				
English	College Prep English 9	College Prep English 10	College Prep English 11	College Prep English 12		ENL 111: English Comp I	ENL 201: Technical & Professional Communication	
Math	Algebra I	Geometry	Algebra II	Trigonometry	MTH 124: Technical Algebra & Trig I			
					MTH 180: College Algebra and Trig I			
Science	Accl Integrated Science	Biology	Chemistry	Physics			PHS 103: Physics Survey	
							PHS 114: Physics w/Technological Applications	
Humanities	Citizenship	World Cultures	American History I	American Government				_HUM: Elective: HUM/SSE/ART/FOR /AAE
Other	Physical Education	Physical Education	Physical Education	Physical Education		FIT: Elective: Fitness		
	Health	Health	Driver's Ed Theory					

CAREER & TECHNICAL STUDENT ORGANIZATIONS (CTSO)

All students enrolled in Reading Muhlenberg Career & Technology Center have the opportunity to participate in at least one Career & Technical Student Organization (CTSO) while enrolled at the CTC. Students who become members in these co-curricular organizations have the opportunity to participate in team building, leadership, community service and social events. Students also have the opportunity to attend skill competitions where the skills they have learned are "put to the test" against other competitors. These competitions include testing of knowledge and hands-on skills in a variety of trade and leadership events. Students who are fortunate enough to win their events at a district or state competition are able to compete at the national level and travel to locations such as Louisville, KY, Kansas City, MO, San Diego, CA, Orlando, FL, and Cleveland, OH.

SkillsUSA



<http://skillsusa.org>

SkillsUSA is a national organization of students, teachers and industry representatives who are working together to prepare students for careers in technical, skilled and service occupations. SkillsUSA provides quality education experiences for students in leadership, teamwork, citizenship and character development. It builds and reinforces self-confidence, work attitudes and communications skills. It emphasizes total quality at work, high ethical standards, superior work skills, life-long education, and pride in the dignity of work. SkillsUSA also promotes understanding of the free-enterprise system and involvement in community service.

Home Builders of America (HBA)



<http://www.pabuilders.org/>

The purpose of the HBA Student Chapter Program is to give students first hand exposure to the "real world" of the building industry and an invaluable complement to their academic studies.

National Technical Honor Society (NTHS)



www.nths.org

NTHS is the acknowledged leader in the recognition of outstanding student achievement in career and technical education. Over 2000 schools and colleges throughout the U.S. and its territories are affiliated with the NTHS. Member schools agree that NTHS encourages higher scholastic achievement, cultivates a desire for personal excellence, and helps top students find success in today's highly competitive workplace. NTHS members receive: the NTHS membership certificate, pin, card, window decal, white tassel, official NTHS diploma seal, and three personal letters of recommendation for employment, college admission, or scholarships. Students will have access to our online career center including these valuable services: MonsterTRAK, Wells Fargo, Career Safe, and Career Key.

Certificate of Competence

*Awarded
May 26, 2015*

This is to verify that

Has met the standards of competence in the

Curriculum by completing the following job title(s)

Herald P. Witmer Jr.

Director

Teacher