

**METRO LIMITED MAINTENANCE ELECTRICAL STUDENTS
THINGS YOU SHOULD KNOW
“COMPLETE YOUR MONTHLY WORK PROGRESS REPORT”**

Your JATC committee uses your MWPR's to see if you qualify for rate to each progressive level. If you omit information, the committee cannot readily decide if you qualify and must “HOLD” you in period. This may cost you money and also extend the length of your apprenticeship.

On each and every report you must include:

- ★ The Month and Year
- ★ Employer (supervisor) signature; related training class title and instructor signature
- ★ A ‘running’ or ‘cumulative’ total of all OJT hours in the lower right block of the grid.
- ★ If you have taken an **approved** elective, indicate the course and hours in the lower right-hand block on your MPR. Get elective instructors signature.
- ★ You are to complete MWPR's once each month whether you are working or not
- ★ **Keep a copy of each month's MPR for your records and next month's reference**

Properly completed MWPR's are **due by the 10th** of each month!!! **FAX: 503-978-5656**

Questions?? Call Katrina Cloud @ 503-978-5651 or Tom Duncan @ 503-978-5652

Please come prepared with copies already made. Please use black Ink. **PLEASE PRINT LEGIBLY**

WELCOME TO THE PROGRAM!!!!

Below is a class schedule, which may need adjusting depending on your entrance date. All apprentices are required to take the PCC placement exam **PRIOR** to indenture.

TERM I (Fall)	TERM II (Winter)	TERM III (Spring)	TERM IV (Summer)
APR 101	APR 102	APR 103	APR 104
LME: Electrical Theory Fundamentals	LME: DC Motors	LME: AC Motors & Transformers	LME: Luminaries & Equipment
TERM V (Fall)	TERM VI (Winter)	TERM VII (Spring)	TERM VIII (Summer)
APR 201	APR 202	APR 203	APR 204
Electrical Motor Controls	LME: Electrical Code – Level I	LME: Electrical Code – Level II	LME: Electrical Code – Level III

Class schedules are available on the PCC website @ <http://www.pcc.edu/schedule/> select a term, then Apprenticeship. Course descriptions are available @ <http://www.pcc.edu/pcc/pro/catalog.htm>

First Year Textbooks: Delmar's Standard Textbook of Electricity (approx \$137)
2008 National Electric Code (approx \$85)
Oregon Administrative Rules (printed from the internet)
Oregon Revised Statutes (printed from the internet)
Tom Henry Key Word Index (optional) (approx \$22)
American Electricians Handbook (optional) (approx \$74)
Fast Tabs (approx \$17)

Second Year Textbooks: Electric Motor Control (approx \$111)
Oregon Specialty Code Amendment (printed from the internet)
 Same books as identified for the first year.
 ** Prices are approximate and texts could be subject to change

Please note: Section IX-d of the Metro Limited Maintenance Electrician JATC Apprentice Standards states “A minimum of 144 hours of related training shall be required during the first year with a minimum of 288 hours over the term an apprentice is registered in the program.” Further the same article states “Related training classes **MUST** be completed with a grade “C” or better. (See ORS 660.126 e)

APPROVED ELECTIVE COURSES FOR STATIONARY ENGINEERS & LME APPRENTICES

PCC schedule website <http://www.pcc.edu/schedule/>

LME Apprentices can take any class listed except those specifically identified for Stationary Engineers.

PCC schedule website <http://www.pcc.edu/schedule/>

***Electrical Trades**

OSHA 30 Hr. Safety Training, 3 Cr. ELT 120 - (33 Hrs)

National Electrical Code, 3 Cr. ELT 230 - (33 Hrs)

Basic Prog Controllers - PC Based, 2 Cr. ELT 125 - (33 Hrs)

Intermediate Prog Controllers - PC Based, 2 Cr. ELT 126 - (33 Hrs)

Advanced Prog Controllers - PC Based, 2 Cr. ELT 225 - (33 Hrs)

Fiber Optics I, 4 Cr, ELT 150 - (66 Hrs)

Fiber Optics: Inside/Outside Plant, 4 Cr. ELT 152 - (66 Hrs)

Electricity for Non/Electrician, 2 Cr. ELT 110 - (33 Hrs)

Adjustable Speed Drive, 2 Cr. ELT 204 - (33 Hrs)

National Electrical Code II, 3 Cr. ELT 231 - (33 Hrs)

Fiber Optics II, 4 Cr. ELT 151 - (66 Hrs)

AMP ACT I, 1 Cr ELT 250 - (16 Hrs)

Electricity for Non/Elect II, 2 Cr. ELT 210 - (33 Hrs)

***Facilities Maintenance Technology**

Refrigeration Electrical I, 2 Cr. FMT 111 - (33 Hrs)

Refrigeration Electrical III, 2 Cr. FMT 113 - (33 Hrs)

Pneumatic Controls, 2 Cr. FMT 207 - (33 Hrs)

Refrigeration Electrical II, 2 Cr. FMT 112 - (33 Hrs)

Direct Digital Controls, 3 Cr. FMT 202 - (33 Hrs)

***Skill Center Courses**

Trades Math, 2 Cr - SC 15 - (Hrs varies - open ended)

***Electronic Engineering Technology Courses**

Digital Systems I, 3 Cr. - EET 121 - (24 Hrs lecture + 33 Hrs Lab) Industrial Safety, 1 Cr. - EET 188 - (12 Hrs)

***Building Construction Technology Courses**

Hand Tool/Power Tool Use and Safety, 3 Cr. - BCT 106 - (60 Hrs & daytime course)

Commercial Print Reading, 2 Cr. - BCT 213 - (33 Hrs)

Construction Math, 3 Cr. - BCT 104 - (33 Hrs)

***Architectural Design and Drafting Courses**

Blueprint Reading Part 1, 2 Cr - ARCH 161 - (33 Hrs)

Blueprint Reading Part 2, 2 Cr. - ARCH 162 - (33 Hrs)

***Electrical License Renewal CEU Courses (awards CEU's not college credit)**

Grounding and Bonding - CEU 922C - (8 Hrs)

NEC Ratings - CEU 9217 - (8 Hrs)

NEC Code Calculations for Motor and Transformers - CEU 922A - (8 Hrs)

Oregon Electrical Safety Laws - CEU 924D - (8 Hrs)

National Electrical Code Changes - CEU 921Z - (8 Hrs)

***IBEW Courses** (<http://www.nietc.org>) for more information

Fire Alarm Theory - (16 Hrs)

Code Calculations - (8 Hrs)

Overcurrent Protection: Article 240 - (8 Hrs)

Grounding & Bonding - (8 Hrs)

Drives - (24 Hrs)

Calculating Fault Currents & the NFPA 70E - (4 Hrs)

Lighting Maintenance - (20 Hrs)

OSHA 10-Hour Safety - (10 Hrs)

Service Article 230 - (8 Hrs)

Electrical Safety "Hot Work" - (8 Hrs)

NEC Ratings - (8 Hrs)

First Aid/CPR - (8 Hrs)

Hazardous Locations: Article 500 - (8 Hrs)

Health Care Facilities - Article 517 - (8 Hrs)

PCC Degree Related

Basic Math, 4 Cr - MTH 20 - (44 Hrs)

Introductory Algebra 2nd Term, 4 Cr, MTH 65 (55 Hrs)

Fundamentals of Physics, 4 Cr, PHY 101 - (44 Hrs)

Beginning Keyboarding, 3 Cr. CAS 121 - (33 Hrs)

Introductory Algebra 1st Term, 4 Cr, MTH 60 - (55 Hrs)

Col. Alg. For Math, Science, Engin, 5 Cr., MTH 111C - (55 Hrs)

Computers in business, 4 Cr. BA 131 - (44 Hrs)

Beginning Keyboarding, 1 Cr. CAS 121A - (10 - 12 Hrs)

***Identifies departments in the schedule of classes where courses are listed and/or websites**

BELOW COURSES APPROVED FOR STATIONARY ENGINEERS ONLY

***Facilities Maintenance Technology**

Pneumatic Controls, 2 Cr - FMT 207 - (33 Hrs)

Intro to Chiller Systems, 3 Cr - FMT 201 - (33 Hrs)

Oil Furnace Service, 2 Cr. - FMT 128 - (33 Hrs)

Water Treatment & Dist, 2 Cr. - FMT 119 - (33 Hrs)

Lock Service & repair, 4 Cr. - FMT 131 - (66 Hrs)

Natural Gas Equipment, 2 Cr. - FMT 125 - (33 Hrs)

Approved 11/25/08

