

**Apprenticeship Learning Outcomes Assessment Report for Fall Term, 2018; Winter Term, 2019; and Spring Term, 2019**

For the 2018-2019 Academic Year for Fall, Winter, and Spring Terms, the Apprenticeship and Trades Department is assessing the Degree Learning Outcomes for our AAS in Industrial Mechanics and Maintenance Technology Apprenticeship Degree. The Courses used for this assessment have an **APR** designation. These courses are overseen by the Oregon Bureau of Labor and Industry (BOLI).

Since each Apprenticeship Student has a Journey Level person accompanying and overseeing them daily at their worksite, Apprenticeship instruction has an imbedded assessment tool provided by the Journey Person who is required by BOLI standards to be in constant daily communication at the worksite with the Apprenticeship Student who is under their charge. There are even rules on when the Apprentice must be within the line of sight of the Journey Person and how far they can be physically separated. The Journeyperson is the best judge of how an individual Apprentice is progressing.

Accordingly, we asked each Journey Person who has an Apprentice under their tutelage to assist us in this year's assessment of our Learning Outcomes for the Degree.

The following Ranking Survey Packet was sent to each Journeyperson asking them evaluate their Apprentice on how that Apprentice is applying the skills learned in their APR classes to their real time real word Job as a Millwright or an Industrial Maintenance Mechanic.

Greetings Journey person or Supervisor:

I am Rick Willebrand and I am the Subject Area Committee Chairperson for the Department of Apprenticeship and Trades at Portland Community College's Swan Island Trades Center and I am asking for your help and expertise.

Currently an Apprentice (s), who is working under your supervision and mentoring, is taking his/her Related Training Courses here at PCC. Each year our Department is asked to complete an Assessment of how well our Courses are meeting the expected learning outcomes for the College as a whole, for the Degrees and Certificates we grant, and also for our individual Courses. This year we are assessing the Degree Outcomes for our AAS Degree in Industrial Mechanics and Maintenance Technology Apprenticeship for the MW/IMM Apprenticeship Program. These courses we are using for the Degree Assessment have an **APR** Course designation and were taught during 2018-2019 Academic Year; Fall, Winter, and Spring Terms. We are assessing for only one PCC Degree outcome: **Repair, install, and maintain a variety of industrial equipment using trades specific tools and techniques in compliance with state regulations for Industrial Mechanics and Millwrights.** We are asking that you will complete the enclosed, brief **Ranking Survey** and return it to us in the pre-paid postage envelope by June 12, 2019. Also enclosed is an instruction sheet that explains the three ranking levels of 1, 2, or 3.

This assessment is only to help us evaluate and improve our classroom instruction and is in no way an evaluation of a Training Agent, an Apprentice, or a PCC Instructor. It will never be used to assign a grade in a class. The information will only be viewed by the Apprenticeship and Trades Department and will only be shared with PCC as general statistical data and never as personal data. The surveys are shredded after we compile data from them and they are not kept on file. I thank you for your help.

Appreciatively,  
Rick Willebrand  
SAC Chair  
[rwillebr@pcc.edu](mailto:rwillebr@pcc.edu)  
971-722-5653

# **Learning Outcomes/Skills Assessment Levels**

## **For the level of Professional Competence**

### **Level 1- Limited**

Limited demonstration and application of knowledge and skills.

Apprentice exhibits limited skill and speed, applies few learned skills and knowledge and struggles to perform task, does not complete task or requires excessive supervision from Journeyperson.

### **Level 2 - Basic**

Basic demonstration and application of knowledge and skills.

Apprentice exhibits basic skill and speed, applies knowledge and uses developing skills to perform task, completes tasks with some supervision from Journeyperson.

### **Level 3 - Advanced**

Demonstrates advanced comprehension and is able to apply essential knowledge and skill.

Apprentice exhibits advanced skill and speed, applies knowledge and uses proficient skills to perform task, completes task with an amount of supervision considered appropriate by Journeyperson.

**Portland Community College  
Apprenticeship and Trades  
Swan Island Trades Center  
Apprentice \_\_\_\_\_  
Term: Fall 2018, Winter 2019, Spring 2019**

**Assigned Apprentice Assessment  
Journeyman Evaluation**

**Journeyman**

**Signature \_\_\_\_\_**

**Company \_\_\_\_\_**

**Degree Outcomes Learning Assessment**

**1 2 3 Repair, install, and maintain a variety of industrial equipment using trade specific tools and techniques in compliance with state regulations for Industrial Mechanics and Millwrights**

is on time for work

uses time effectively

does not endanger self or others

shows a working knowledge of testing tools and instrumentation

obtains, records, and reports measurements accurately using correct instrumentation

uses schematics, assembly drawings, and manufactures specifications accurately

shows a working knowledge of the interpretation of structural blueprints

shows proficiency in safely troubleshooting common hydraulic system components

is developing skills in overall troubleshooting of industrial equipment

demonstrates safe working practices, including rigging and lockout/tag out, according to state and federal regulations

Our SAC asked twenty Apprenticeship Students to hand carry this Learning Assessment packet to each of their respective Journey Persons and requested that the Journey Person complete and return it by the last week of Spring Term, 2019. The response was forty percent return. We had set a thirty percent return as acceptable to make the Ranking Survey a valid assessment tool and were glad that we were able to exceed that mark.

The information collected was entered into a chart similar to an excel spreadsheet so that the SAC could do a better side by side comparison of the data.

Here are the highlight results of that data evaluation:

Fifty percent scored at the highest level of learning, category #three exclusively.

Twelve percent scored low with only twelve percent in category #three.

Thirty eight percent scored with forty percent in category #two and sixty percent in category #three.

Our SAC was gratified by these results especially for APR Curriculum that is full of technical data, formulas, and step by step instruction.

Of most interest to our SAC was that, consistently, the low category, # two rankings, showed in the same two outcomes: "Uses Schematic, assembly drawings, and manufactures' specifications accurately" and "Shows a working knowledge of the interpretation of structural blueprints."

Both schematics and Industrial Blueprints are taught in the course APR 164 – Industrial Blueprints and Schematics for the Trades. We will be looking closely at APR 164 and very much need to step up our instruction for those two topics.

Appreciatively,

The Apprenticeship and Trades Subject Area Committee.

