



NEVADA LABOR COMMISSIONER
NEVADA STATE APPRENTICESHIP COUNCIL
2022 Non-Joint Standards of Apprenticeship

Appendix A

WORK PROCESS SCHEDULES AND RELATED INSTRUCTION OUTLINE

*Nevada System of Higher Education,
dba Truckee Meadows Community College*

INDUSTRIAL MAINTENANCE MECHANIC

O*NET-SOC CODE: 49-9041.00 RAPIDS CODE: 0308CB

APPROVED BY
THE NEVADA LABOR COMMISSIONER AND THE NEVADA STATE APPRENTICESHIP COUNCIL

Toni Giddens, Nevada State Apprenticeship Director

REGISTRATION DATE: _____

RAPIDS PROGRAM ID NUMBER: _____

DEVELOPED IN COOPERATION WITH THE
THE NEVADA LABOR COMMISSIONER, THE NEVADA STATE APPRENTICESHIP COUNCIL AND
THE U.S. DEPARTMENT OF LABOR

Appendix A3

WORK PROCESS SCHEDULE INDUSTRIAL MAINTENANCE MECHANIC O*NET-SOC CODE: 49-9041.00 RAPIDS CODE: 0308CB

This schedule is attached to and a part of these Standards for the above identified occupation.

1. TYPE OF OCCUPATION

☐ Time-based ☒ Competency-based ☐ Hybrid

2. TERM OF APPRENTICESHIP

The term of the occupation shall be defined by the attainment of all competencies of the position, which would be expected to occur with approximately 2,000 hours of OJL, supplemented by the minimum of 144 hours of related instruction per year of the apprenticeship.

3. RATIO OF APPRENTICES TO JOURNEYWORKERS

The apprentice to journey worker/fully trained worker ratio is: 1 apprentice(s) to 1 journey worker/fully trained worker(s).

4. APPRENTICE WAGE SCHEDULE

An apprentice minimum starting wage will be at least \$17 per hour. Apprentices shall be paid a progressively increasing schedule of wages based on either a percentage or a dollar amount of the current hourly journey worker/fully trained worker wage. A journey worker/fully trained worker minimum wage will be at least \$18.00.

Periodic review and evaluation of the apprentice's on-the-job learning and related technical instruction will be conducted in alignment with the wage schedule established.

5. WORK PROCESS SCHEDULE (See attached Work Process Schedule)

The sponsor may modify the work processes to meet local needs prior to submitting these Standards to the appropriate Registration Agency for approval.

6. RELATED INSTRUCTION OUTLINE (See attached Related Instruction Outline)

The sponsor may modify the related instruction to meet local needs prior to submitting these Standards to the appropriate Registration Agency for approval.

Appendix A3

**WORK PROCESS SCHEDULE
INDUSTRIAL MAINTENANCE MECHANIC
O*NET-SOC CODE: 49-9041.00 RAPIDS CODE: 0308CB**

The term of the occupation shall be defined by the attainment of all competencies, both technical and behavioral, of the position, which would be expected and approximated to occur with 2,000 hours of OJL, supplemented by a minimum of 144 hours of related instruction per year of apprenticeship.

Apprenticeship Competencies – Technical

| Item | Work Processes | Approx. Hours |
|-------------|---|----------------------|
| A | Workplace Safety and Health | 145 |
| B | Environmental Protection | 145 |
| C | Operational and Technical Communication | 145 |
| D | Plan and Organize Work and Assess Work Results | 145 |
| E | Distinguish, Classify and Handle Materials and Auxiliary Supplies | 145 |
| F | Manufacture Components and Modules | 145 |
| G | Maintain Operating Equipment | 145 |
| H | Control Technologies (Advanced Manufacturing and Robotics) | 145 |
| I | Lash, Secure, and Transport | 145 |
| J | Customer Orientation | 145 |
| K | Manufacture, Assemble, and Disassemble Components, Modules, and Systems | 145 |
| L | Ensure Operability of Technical Systems | 145 |
| M | Repair Technical Systems | 145 |
| N | Business Processes and Quality Assurance Systems in Operating Area | 115 |
| | Total hours (approximate) | 2,000 |

The above on-the-job-learning (OJL) work process competencies are intended as a guide. It need not be followed in any sequence, and it is understood that some adjustments may be necessary in the hours allotted for different work experience. In all cases, the apprentice is to receive sufficient experience to make them fully competent and use good workmanship in all work processes, which are a part of the industry. In addition, the apprentice shall be fully instructed in safety and OSHA requirements.

Apprenticeship Competencies – Behavioral

In addition to mastering all the essential technical competencies, an apprentice must consistently demonstrate at an acceptable level the following behavioral competencies, to complete the apprenticeship.

| Item # | Behavioral Competencies |
|---------------|---|
| 1. | Participation in team discussions/meetings |
| 2. | Focus in team discussions/meetings |
| 3. | Focus during independent work |
| 4. | Openness to new ideas and change |
| 5. | Ability to deal with ambiguity by exploring, asking questions, etc. |
| 6. | Knows when to ask for help |
| 7. | Able to demonstrate effective group presentation skills |
| 8. | Able to demonstrate effective one-on-one communication skills |
| 9. | Maintains an acceptable attendance record |
| 10. | Reports to work on time |
| 11. | Completes assigned tasks on time |
| 12. | Uses appropriate language |
| 13. | Demonstrates respect for patients, co-workers, and supervisors |
| 14. | Demonstrates trust, honesty, and integrity |
| 15. | Requests and performs work assignments without prompting |
| 16. | Appropriately cares for personal dress, grooming and hygiene |
| 17. | Maintains a positive attitude |
| 18. | Cooperates with and assists co-workers |
| 19. | Follows instructions/directions |
| 20. | Able to work under supervision |
| 21. | Able to accept constructive feedback and criticism |
| 22. | Able to follow safety rules |
| 23. | Able to take care of equipment and workplace |
| 24. | Able to keep work area neat and clean |
| 25. | Able to meet supervisor's work standards |
| 26. | Able to not let personal life interfere with work |
| 27. | Adheres to work policies/rules/regulations |

**RELATED INSTRUCTION OUTLINE
INDUSTRIAL MAINTENANCE MECHANIC
O*NET-SOC CODE: 49-9041.00 RAPIDS CODE: 0308CB**

The related instruction has been developed in cooperation with employer-partners as part of the apprenticeship. The following is a set of courses to be delivered by subject matter experts.

Related Technical Instruction (RTI) - This instruction shall include, but not be limited to, at least 144 hours per year for each year of the apprenticeship. The related theoretical education listed below is tightly integrated with real work product. The curriculum is defined as a variety of classes, around which the exams and projects are based. By defining the RTI this way, all competencies required of the students are met, through project work.

Block #1

| TOPIC | Hours |
|----------------------|-------|
| ELM 110 - Electrical | 45 |
| MPT 160 - Mechanical | 45 |

Block #2

| TOPIC | Hours |
|---------------------------------|-------|
| MT 108 - Pneumatics | 45 |
| MPT 110 - General manufacturing | 45 |

Block #3

| TOPIC | Hours |
|---|-------|
| MPT 120 - Sensors | 45 |
| MPT 130 - Manufacturing Execution Systems | 45 |

TOTAL HOURS : 180

SECTION 27 - OFFICIAL ADOPTION OF APPRENTICESHIP STANDARDS

Nevada System of Higher Education, dba Truckee Meadows Community College hereby adopts these standards of apprenticeship.

Sponsor(s) designate the appropriate person(s) to sign the standards on their behalf.

Jamie Perez-Galvan

Signature of Sponsor (designee)

Date: 08/03/23

TMCC Apprenticeship Grant Manager

Type Name & Title