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| **Institution:** | El Paso Community College | **Program Award Title and Level:** | Industrial Maintenance AAS |

| **Key Activity #/Statement** |
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| INMT 1305Introduction to Industrial Maintenance | CETT 1302Electricity Principles | DFTG 1413 Drafting for Specific Occupations | HYDR 1445Hydraulics & Pneumatics | INMT 2334Numerical Control/Computerized Control Programming (NC/CNC) | ELMT 2433Industrial Electronics | RBTC 1305 Robotics Fundamentals | RBTC 1245Robotics Interfacing | INMT 2345Industrial Troubleshooting | INMT 2280Cooperative Education-Manufacturing Technology/Technician |
| 1.0 SAFETY |  |  |  |  |  |  |  |  |  |  |
| 1.1 Work in a safe and productive manufacturing workplace | X |  |  |  |  |  |  |  |  | X |
| 1.2 Perform safety and environmental assessments | X | X |  | X |  | X |  | X | X | X |
| 1.3 Perform emergency drills and participate in emergency teams | X |  |  |  |  |  |  |  |  |  |
| 1.4 Identity unsafe conditions and take corrective action |  |  |  | X |  |  |  |  | X | X |
| 1.5 Participate in safety training | X |  |  |  |  |  |  |  |  | X |
| 1.6 Participate in equipment safety training | X |  |  |  |  |  |  |  |  | X |
| 1.7 Suggest processes and procedures that support safety of work environment | X |  |  |  |  |  |  |  | X |  |
| 1.8 Fulfill safety and health requierements for maintenance, installation and repair | X |  |  |  |  |  |  |  | X |  |
| 1.9 Monitor safe equipment and operator performance | X |  |  |  |  |  |  | X | X |  |
| 1.10 Utilize effective, safety-enhancing workplace practices |  | X |  |  |  |  |  |  | X | X |
| 2.0 QUALITY PRACTICES AND MEASUREMENT |  |  |  |  |  |  |  |  |  |  |
| 2.1 Participate in periodic or statistically based internal quality audit activities |  |  |  |  |  |  | X |  |  |  |
| 2.2 Check and documents calibration of gauges and other data collection equipment |  |  |  |  |  |  | X |  |  |  |
| 2.3 Suggest continous improvements |  |  |  |  |  |  | X |  |  | X |
| 2.4 Inspect materials and product/process at all stages to ensure they meet specificsations |  |  |  |  | X |  | X |  |  | X |
| 2.5 Document the results of quality test |  |  |  |  | X |  | X |  |  |  |
| 2.6 Communicate quality problems |  |  |  |  | X |  | X |  |  | X |
| 2.7 Take corrective actions to restore or maintain quality |  |  |  |  | X |  | X |  |  | X |
| 2.8 Record process outcomes and trends |  |  |  |  |  |  | X |  |  |  |
| 2.9 Identify fundamentals of blueprint reading | X |  | X |  |  |  |  |  |  |  |
| 2.10 Use common measurement systems and precision measurement tools |  |  | X |  | X |  |  |  |  |  |
| 3.0 MANUFACTURING PROCESSES & PRODUCTION |  |  |  |  |  |  |  |  |  |  |
| 3.1 Identify customer needs |  |  |  |  | X |  |  | X |  | X |
| 3.2 Determine resources available for the production process |  |  |  |  |  |  |  | X |  | X |
| 3.3 Set up and verify equipment for the production process |  |  |  |  |  |  |  | X |  | X |
| 3.4 Set team production goal |  |  |  |  |  |  |  | X |  | X |
| 3.5 Make job assignments |  |  |  |  |  |  |  | X |  | X |
| 3.6 Coordinate work flow with team members and other work groups |  |  |  |  |  |  |  | X |  | X |
| 3.7 Communicate production and material requierements and product specifications. |  |  |  |  |  |  |  | X |  | X |
| 3.8 Perform, monitor and document the process to make the product |  |  |  |  |  |  |  | X |  | X |
| 3.9 Documents product and process compliance with customer requierements |  |  |  |  |  |  |  | X |  | X |
| 3.10 Prepare final product for shipping or distribution |  |  |  |  |  |  |  | X |  | X |
| 4.0 MAINTENANCE AWARENESS |  |  |  |  |  |  |  |  |  |  |
| 4.1 Perform preventive maintenance and routine repair |  |  |  | X |  |  |  |  | X | X |
| 4.2 Monitor indicators to ensure correct operations |  |  |  |  |  |  |  | X | X |  |
| 4.3 Perform all housekeeping to maintain product schedule |  |  |  |  |  |  |  |  | X |  |
| 4.4 Recognize potential maintenance issues with basic production systems, including knowledge of when to inform maintenance personnel about problems with |  |  |  |  |  |  |  | X | X | X |
| 5.0 GREEN PRODUCTION |  |  |  |  |  |  |  |  |  |  |
| 5.1 Train workers in environmental issues | X |  |  |  |  |  |  |  |  |  |
| 5.2 Implement and promote environmental programs, projects, policies or procedures | X |  |  |  |  |  |  |  |  |  |
| 5.3 Conduct environmental incident and hazard investigations | X |  |  |  |  |  |  |  |  |  |
| 5.4 Conduct preventive environmental inspections | X |  |  |  |  |  |  |  |  |  |
| 5.5 Monitor environmental aspects at each stage of production  |  |  |  |  |  |  |  | X |  | X |
| 5.6 Implement continous improvement in environmental assurance practices |  |  |  |  |  |  |  | X |  | X |
| 5.7 Use advanced materials in production to reduce weight and increase life |  |  |  |  |  | X |  | X |  | X |
| 5.8 Reprocess materials by recycling and reuse throughout product life cycle to optimize waste reduction |  |  |  |  |  | x |  | X |  | X |