**Computer Aided Design and Computer Aided Manufacturing PRE-ASSESSMENT**

This assessment is to be taken before completing the Computer Aided Design and Computer Aided Manufacturingactivity.

Student Institute ID\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Faculty Institute ID\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| 1.   | CAD files are often used for CNC machining and to improve design quality. (1 point) |
|   |  True False |
| 2.   | CAD software uses both Vector and Raster graphic images. (1 point) |
|   |  True False |
| 3.   | The primary purpose of CAM is to create faster production processes. (1 point) |
|   |  True False |
| 4.   | The CAD drawing provides information such as part material, special processes, dimensions/ tolerances and surface finish. (1 point) |
|   |  True False |
| 5.   | The CAM system uses the geometry (points, lines and circles) from the CAD system to determine the part geometry. The part ZERO or ORIGIN is determined by the machinist when setting the machine tool. (1 point) |
|   |  True False |
| 6.   | CAM systems determine the cutting parameters from the size of the part/piece and the shape of the part. (1 point) |
|   |  True False |
| 7.   | Understanding the basics of cutting tools helps the manufacturing technician decide the order of operations required to produce the finished part. (1 point) |
|   |  True False |
| 8.   | The spindle speed and feed rates determined by the CAM system should always be used when machining any type of material using the pre determined cutting tools. (1 point) |
|   |  True False |
| 9.   | The CAM system determines the feature location and size from the accurate CAD design drawing. (1 point) |
|   |  True False |
| 10.   | Learning the codes for CNC machining is important for optimizing the CNC program and improving productivity? (1 point) |
|   |  True False |