CNC EXPERT STANDARDS

PROJECT: TITAN-90L CERTIFICATION: CAD

OVERVIEW:

Successfully demonstrated comprehension of the TITAN-90L CAD performance standard. Create an accurate and fully defined TITAN-90L solid model using CAD software and part documentation.

MATERIALS:

- TITAN-90L part print
- Computer with CAD software

SKILLS DEMONSTRATED:

SKETCHING (2D)

- **Circle (Center Diameter Circle):** Creates a circle using a center point and diameter.
- Constraint (Equal): Constrains similar objects so that their sizes are equal.
- **Constraint (Horizontal/Vertical):** Constrains a single line, or two points, to lie on either the vertical or horizontal axis.
- **Construction Plane:** Selects sketch plane on which to construct part features.
- **Create Sketch:** Enters sketch mode and creates a new sketch on a selected plane or face.
- **Dimensioning:** Assigns dimension values to sketch geometries and/or modifies previously assigned dimensions.
- Fillet: Places an arc of a specified radius at the intersection of two lines or arcs.
- Line: creates lines and arcs.

MODELING (3D)

- Chamfer: Applies a bevel to one or more edges.
- Fillet: Adds fillets or rounds to one or more edges, faces or features.
- **Revolve:** Revolves a sketch profile or planar face around a selected axis.