The Digger Derrick Periodic Inspection course features five individual segments covering the Terex Utilities Digger Derrick Platform Periodic Inspections. The training outlines the Terex Utilities inspection form as well as inspection points and criteria for the Digger Derrick Periodic Inspection.

1. **Digger Derrick Periodic Inspection Forms**
   a. This lesson breaks the Terex Utilities Periodic Inspection form down, detailing the information that needs to be captured and providing explanations and examples on how the form is meant to be used.

2. **Chassis / Body**
   a. The second lesson focuses on the components that fall into the Chassis and Body section of the inspection sheet. This section is broken into two separate lessons: Cab Controls and Body / Flatbed. Pictures and descriptions are used to provide examples of areas that need to be checked for each inspection point.
   b. **Cab Controls**
      i. Master Switch Panel
      ii. Strobe Lights / Beacons
      iii. PTO Shift Control (cable, air, electric)
      iv. PTO Indicator Light
      v. PTO Warning Label Present
      vi. Stowed Height Placard
      vii. Start / Stop, Throttle Controls
      viii. Auxiliary Brake Control
      ix. Back Up Alarm
      x. Operators Manual With Truck
   c. **Body / Flatbed**
      i. Headlights, Stop, Tail, Turn, Hazard
      ii. Fire Extinguisher
      iii. Wheel Chocks
      iv. Outrigger Pads
      v. Unit Grounding Equipment
      vi. Cab Guard / Headache Rack
      vii. Steps / Accessibility
      viii. All Safety Decals - Legible and Proper Location
3. **Digger Derrick Unit**

   a. The Digger Derrick Unit segment is broken into twelve lessons: Basic Hydraulic System, PTO/Pump, Outrigger System, Pedestal, Controls, Turntable, Lift Cylinders, Main Boom Assembly, Boom Extension System, Platform, Digger / Auger, and Boom Winch. Pictures and descriptions are used to provide examples of areas that need to be checked for each inspection point.

   b. **Basic Hydraulic System**
      
      i. Reservoir - Breather Cap
      ii. Filters
      iii. Amount and Condition of Oil
      iv. Gate Valves, Hoses, and Fittings

   c. **PTO / Pump**
      
      i. PTO / Pump Mounting
      ii. PTO / Pump Noises and Leaks
      iii. PTO / Pump Hoses and Fittings
      iv. All Pressures (SYS, D/W, HOP)

   d. **Outrigger System**
      
      i. Welds, Metal Structure, and Mounting
      ii. Anchor Bolts
      iii. Hydraulic Cylinders - Leaks
      iv. Cylinder Pins and Keepers
      v. Foot Assembly and Pins
      vi. Holding Valves / Locks (Drift Test)
      vii. Hose Condition, Routing Under Chassis
      viii. Control Valves
      ix. Boom Interlock System-Jan. 2005 On
      x. Outrigger Motion Alarm-Feb. 2000 On
      xi. Relief Valve Setting
      xii. Auxiliary Let Down System
      xiii. Chassis Level Indicator-Jan. 2003 On
      xiv. Chassis Tire Pressures

   e. **Pedestal**
      
      i. Welds - Metal Structure and Mounting
      ii. Collector Block - Mounting Bolts,
      iii. Hoses / Fittings
      iv. Pedestal Valves and Controls.
      v. Leaks in Pedestal Area
      vi. Rotation Bearing and Fasteners
f. Controls – Lower, Command Post, Handle Rack, Upper
   i. Operation Of All Controls, Leaks
   ii. Control Labels
   iii. Throttle Control - Hoses, Fittings, Reservoir
   iv. Electrical Components
   v. Air Cylinders, Hoses, Fittings
   vi. Engine High RPM
   vii. Boom Angle Placard
   viii. Boom Angle Indicator
   ix. Boom Load Chart
   x. Emergency Stop - June 2006 On
   xi. Digger and Pole Guide Disable with Upper Controls - ANSI A10.31-2006Platform Controls

g. Turntable
   i. Welds - Metal Structure
   ii. Rotation Bearing and Fasteners
   iii. Rotation Gearbox and Motor
   iv. Lift Cylinder Pin Boss Area

h. Lift Cylinders
   i. Cylinder Rods
   ii. Cylinder Seals
   iii. Holding Valves - Load Test
   iv. Welds
   v. Pins and Bushings

i. Main Boom Assembly
   i. Welds and Pivot Pins
   ii. Metal Structure Condition
   iii. Boom Fittings, Bolts, Sheaves
   iv. Fiberglass Boom Condition
   v. Jib and Jib Attachments

j. Boom Extension System
   i. Cylinder Rods
   ii. Cylinder Seals
   iii. Cylinder Holding Valves
   iv. Cylinder Pins and Bushings
   v. Rollers and Wear Pads
   vi. Hoses, Hose Carriers, Slide Tubes
   vii. Cables
viii. Sheaves, Pins, Bushings
ix. Pole Guides
x. Pole Guide Cylinder
xi. Pole Guide Tilt Cylinder

k. Platform
i. Bucket Condition
ii. Bucket Liner
iii. Mounting Hardware
iv. Bucket Cover
v. Bucket Leveling, Brake Assembly
vi. Lanyard Anchor Point
vii. Safety Harness and Lanyard
viii. Non-Skid Bucket Step

l. Digger / Auger
i. Digger Hoses, Fittings
ii. Stow Cable / Strap / Rope
iii. Over Stow Protection Valve
iv. Digger / Auger Mounting
v. Latch Assembly
vi. Digger Gearbox - Oil Level
vii. Auger, Teeth, Pilot

m. Boom Winch
i. Mounting, Wire or Braided Rope
ii. Hook, Safety Latch
iii. Hydraulic Motor - Leaks, Noise
iv. Brake - Operation
v. Hoses, Fittings
4. General
   a. The fourth segment is broken into three lessons: Auxiliary Winch, Hydraulic Tools, and General Lubrication. Pictures and descriptions are used to provide examples of areas that need to be checked for each inspection point.
   b. Auxiliary Winch
      i. Cable / Line
      ii. Hook, Safety Latch
      iii. Motor - Electric, Hydraulic
      iv. Controls - Cord, Hoses, Fittings
      v. Mounting Bolts
   c. Hydraulic Tools
      i. Impact, Tamper, Saws
      ii. Tool Hoses, Fittings
      iii. Pole Puller, Base, Chain
      iv. Tool Hose Reel, Hoses, Quik Couplers
   d. General Lubrication
      i. Boom Extension Parts
      ii. Control Linkages
      iii. Rotation Bearing
      iv. Hinge Points
      v. Gearboxes

5. Red Tag Items
   a. The final lesson installment covers “Red Tag” inspection items, providing details and examples to help the technician identify these deficiencies. This lesson is broken into four parts, each covering different items on the inspection sheet.

Quizzing and Testing

Entrance Exam
The entrance exam is provided to help you gauge your knowledge on the topics that will be covered in this training. It also provides the instructors with valuable feedback, allowing us to modify and expand the training to ensure it is as effective as possible. The entrance exam can be taken only once and should be completed before starting any of the training lessons. This exam has no effect on the final grade for the course.
Review Quizzes
A review quiz is provided after each lesson segment to allow the technician to gauge their knowledge and understanding of the topic. The review quizzes can be taken as many times as desired and have no effect on the final grade for the course.

Digger Derrick Periodic Inspection Final Exam
The final exam consists of 80 multiple choice and true/false questions. To successfully pass this course, the technician must achieve a score of 90% or higher on the final exam in a maximum of 2 attempts. Upon the successful completion of this course, the technician will receive a Certificate of Completion for the course.