

## Artisan Academy™

### ***What:***

- Artisan Academy™ turnkey technical training package
- CertiFLEX™ Learning Management System (LMS) software application & associated services
- HVTC eLearning Content Library for artisan training
- Train-the-trainer sessions for equipment familiarization

### ***How:***

Site visits to conduct:

- Consultation with customer training group & SMEs to determine desired equipment & associated curriculum
- Tour of current/potential training spaces
- Concept renderings of the proposed lab & classroom builds
- Lab & classroom equipment sourcing & delivery
- Lab & classroom equipment assembly & commissioning
- Train-the-trainer activities
- BG Workforce provided hardware support
- BG Workforce provided IT support for software deployment

## Artisan Academy™ Definitions & Specifications

### **Artisan Academy™:**

The Artisan Academy™ is a modern, turnkey technical training package which blends physical training equipment with state-of-the-art eLearning to reduce training overhead & improve learning outcomes. The Artisan Academy™ can be configured based on 3 general categories:

1. **Basic Standard Training (BST)** – A pre-configured general training package which covers a broad swath of foundational industrial skills relevant to most Wage Grade (WG) workers & entry-level technicians.
2. **Advanced Specialized Training (AST)** – A customized training package made from pre-configured equipment sets to deliver training in specialized or complex skillsets relevant to developing journeymen & technical SMEs.
3. **Depot Specific Training (DST)** – A bespoke, customized training environment designed to support the missions & capabilities specific to a specialized workforce at a customer site.

Artisan Academies generally conform to the following guidelines, but can be modified as needed to meet the needs of individual customer sites:

- Accommodate up to 12 trainees at a time
- Include storage & classroom furniture
- Include classroom IT equipment (server, Wi-Fi, computers, accessories)
- Include A/V equipment (monitors, instructor displays, & room audio)
- Training equipment delivered with associated eLearning content

### **Milestone/Deliverable Outline:**

1. Initial meeting w/ customer to determine training needs & level (BST, AST, DST). BG Workforce tours training spaces.
2. BG Workforce sources materials & provides concept renderings & equipment list to customer. Customer reviews & accepts proposal.
3. BG Workforce orders equipment & delivers to customer site. Customer takes possession of materials.
4. BG Workforce on site to assemble equipment & validate functionality (lab commissioning). Customer participation recommended for training purposes.
5. BG Workforce provides train-the-trainer sessions on delivered equipment/ curriculum.



***Figure 1—Artisan Academy™ BST Rendering***



***Figure 2 — Artisan Academy™ DST Lab Rendering (Aircraft Composites)***



**Figure 1 — Additive Manufacturing**



**Figure 2 — PLC Training System**



**Figure 3 — Virtual Welding Simulator**



**Figure 4 — CNC Lathe**



**Figure 5 — Electricity Training System**



**Figure 6 — Robot Training Cart**

**Artisan Academy™ Training Capabilities:**

The HVTC Artisan Academy™ can provide turnkey training systems & curriculum including, but not limited to, the following technologies & technical disciplines:

- Pneumatics
- Hydraulics
- Mechanics & Mechanical Systems
- Metrology
- Quality Assurance
- Rigging
- Pumps & Fluid Drive Systems
- AC/DC Electronics
- Microelectronics
- Electric Motors
- Electrical Controls
- Industrial/Commercial Wiring
- Fire Alarm Systems
- High Voltage Electrical
- Power Generation & Distribution
- Renewable Energy Systems
- HVAC & Refrigeration
- Industrial Piping
- Industrial Instrumentation
- Sensors
- Process Control
- PLC & Industrial Automation
- SCADA Systems
- Industry 4.0
- Robotics
- CNC Machining
- Additive Manufacturing
- 3D Printing
- Composite Materials
- Advanced Metals Wire Arc Additive Manufacturing (WAAM)
- Welding
- Aircraft Composites
- Sheet Metal
- Communications Systems
  - Telephony
  - Satellite Communications
  - Microwave Systems
  - Antenna Systems
- RADAR Systems
- Optics
- Forklift
- Electric Vehicles

## **HVTC eLearning Content Library:**

The HVTC eLearning Content Library contains over 500 premium eLearning courses specifically designed for training skilled technical workers. Content includes, but is not limited to, the following integrated training pathways:

- Aerospace Assembly Technician (Levels I - V)
- Aerospace Quality Technician (Levels I - III)
- Basic Manufacturing Skills
- CNC Lathe (Levels I - IV)
- CNC Machining Center (Levels I - IV)
- CNC Machinist Onboarding (Levels I - IV)
- Electrician (Levels I - IV)
- Export Compliance (ITAR, Counterfeit Avoidance, EAR, FOD)
- General Utility (Industrial Maintenance, Levels I - IV)
- Health & Safety (Levels I - IV, Includes OSHA & HAZWOPER standards)
- Hydraulics Systems (Levels I - IV)
- Industrial Maintenance Technician (Levels I - IX)
- Layout & Fabrication (Levels I - V)
- Lean Manufacturing
- Machinery Repair (Levels I - V)
- Maintenance Repair (Levels I - V)
- PLC Technician
- Pneumatic Systems (Levels I - III)
- Project Management
- Robotics Technician (Levels I - IV)
- Six Sigma