AVIONICS/ELECTRONICS TECHNICIAN
WORK PROCESSES & SKILLS

The term of the apprenticeship will be based on the apprentice's completion and on-the-job demonstration of the professional competencies outlined in the work processes. Apprentices must demonstrate competency in a minimum of **87.5%** of the listed competencies prior to completing the program. If training employers identify specific competencies that cannot be tested on the job, the apprenticeship committee will approve and provide instruction and testing that ensures the competencies have been met. Registered Apprentices will perform work and are required to demonstrate competencies in the following skills:

Work Processes & Skills

Safety Process & Quality Assurance
- Identifies and utilizes appropriate PPE for work assignments across all areas.
- Demonstrates situational awareness while performing duties and tasks.
- Performs tasks and utilizes equipment in a safe manner following company policies and procedures.
- Maintains a clean work environment and consistently demonstrates FOD awareness.
- Works in compliance to OSHA, DCMA and other applicable agency regulations.
- Identifies and utilizes appropriate points of contact within the organization.
- Attends and completes required meetings and training assignments.
- Performs and completes tasks in compliance with quality assurance standards.

Timekeeping & Task Reporting
- Utilizes assigned timekeeping software & programs.
- Adheres to timekeeping policies and practices.
- Utilizes and records correct charge numbers and work orders.
- Reports Apprenticeship training hours in accordance with guidelines.
- Writes accurate daily reports and submits in a timely manner following established guidelines.
- Completes assigned tasks in a timely manner and reliably follows others instructions.
- Demonstrates initiative in training progression and willingly asks questions about things not fully understood.

Platforms & Software
- Loads & verifies Air and Ground Control Vehicle software.
- Practices cybersecurity protocols.
- Accesses, controls, & configures software in compliance with company & customer policies, procedures & Federal regulations.
- Demonstrates contextual awareness of systems & software to overall operational processes & procedures.
- Follows import and export compliance policies.
- Adheres to DoD, CCI & COMSEC technology and information policies and practices.
- Reports cyber compliance concerns, threats, and issues to appropriate personnel in a timely manner.

Technical Publications
- Identifies, locates, reads, interprets, & utilizes appropriate publications, blueprints, drawings, & schematics for tasks.
- Follows company & customer specific platform modification instructions.
- Submits change requests for technical publications following established guidelines.
- Adheres to customer and platform specific technical documentation guideline
- Involves appropriate personnel to address discrepancies and issues.

Tool Control & Utilization
- Demonstrates tool and item control and applicable inventory practices.
- Maintains and stores tools following company policies and procedures.
- Identifies and utilizes tools in a safe and proper manner.
- Adheres to missing tool and item procedures and policies.
- Performs pre- and post-use inspections.

Maintenance & Operational Procedures
- Identifies and accurately uses equipment and components.
- Reviews and accurately documents work in equipment records and log books.
- Installs, removes, & replaces components.
- Uses appropriate fault management and escalation techniques.
- Repairs, maintains, & upgrades equipment & systems following guidelines.
- Conducts inspections & operational checks following guidelines.
- Performs inspections, maintenance, and repairs following Return to Use guidelines.
- Demonstrates appropriate troubleshooting techniques.

Computer Knowledge
- Uses correct data transmission interface equipment with PC applications
- Uses computer applications to perform trend analysis
- Identifies and utilizes Windows and Linux OS and appropriate office suite software applications for tasks
- Accesses Internet and Intranet to perform assigned tasks.
- Installs, upgrades, and maintains PC equipment.
- Locates, identifies, and utilizes correct folders & networks.
- Adheres to customer and platform specific technical documentation guideline

REGISTERED WITH:

DIVISION OF APPRENTICESHIP STANDARDS
DAS
STATE OF CALIFORNIA
DEPARTMENT OF INDUSTRIAL RELATIONS

DEPARTMENT OF LABOR
UNITED STATES OF AMERICA

AVIONICS/ELECTRONICS TECHNICIAN
WORK PROCESSES & SKILLS

Apprentices must Complete Coursework Aligned with Avionics/Electronics, Manufacturing and/or Machining Technology, Production Technician, and/or Engineering Technology pathways. Through consultation with the Apprenticeship Committee, the Local Education Agency, and the indenturing employer, apprentices will select an applicable program of study/course track and complete a minimum of **144 hours** of related instruction per year of apprenticeship. Prior applicable education and training will be credited towards completion of related education requirements and apprentices will be offered tracks advancing their technical aptitude in the profession.

Related Instruction Content May Include

D.C. CIRCUIT THEORY AND ANALYSIS	96 HOURS
A.C. CIRCUIT THEORY AND ANALYSIS	96 HOURS
PRINCIPLES OF DIGITAL LOGIC AND CIRCUITS	96 HOURS
INTRODUCTION TO THE UNIX OPERATING SYSTEM	96 HOURS
MICROPROCESSOR PRINCIPLES	96 HOURS

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