

Teacher Assessments (Advanced)

ADMINISTRATIVE ASSISTING - 5160

Written – Computer applications, working in an office environment, records management, office procedures, and accounting and computational skills. (Administration Time: 3 hours; Number of test items: 188)

Performance - Business writing, document processing, preparing a spreadsheet, creating a chart, and create a flyer. (Administration time: 3 hours; Number of jobs: 5)

ADVERTISING DESIGN - 5161

Written – Computer literacy, typography, design theory and application, color theory and application, drawing and digital illustration, photography, production and printing, communication and career skills, work environment, multimedia, digital image manipulation. (Administration Time: 3 hours; Number of test items: 184)

Performance – Final computer comprehensive and comprehensive redesign. (Administration time: 4 hours; Number of jobs: 2)

AUTOMOTIVE TECHNICIAN - 5162

Written – Customer relations and shop procedures, engine repair, automatic transmission/transaxle, manual drive train and axles, suspension and steering, brakes, electrical/electronic systems, heating and air conditioning, and engine performance. (Administration Time: 3 hours; Number of test items: 196)

Performance – Identification of parts, disc brake assembly service, tire service and balance, cylinder head service, perform fuel system pressure test, windshield washer circuit inoperative, test and diagnose battery, starting and charging system, and test electronic engine control component. (Administration time: 3 hours and 10 minutes; Number of jobs: 8)

BUILDING CONSTRUCTION OCCUPATIONS - 5163

Written – Safety and general knowledge, carpentry, masonry, electrical, plumbing, energy efficiency, and blueprints and construction math. (Administration Time: 3 hours; Number of test items: 116)

Performance – Soldering and threading pipe, rafter layout, stair layout, rough and finish electrical, and block wall construction. (Administration time: 2 hours, 15 minutes; Number of jobs: 5)

BUILDING TRADES MAINTENANCE - 5164

Written – Safety, tools and materials, carpentry, painting and wall covering, masonry, electrical, plumbing, welding, general maintenance, ground & equipment maintenance, and HVAC. (Administration Time: 3 hours; Number of test items: 171)

Performance – Carpentry-construct frame, plumbing-sweat piping, electricity-rough wiring, drywall, electricity-finish wiring, and carpentry-mortise hinge. (Administration time: 3 hours; Number of jobs: 6)

CARPENTRY - 5165

Written – Safety, tools and accessories, blueprint reading and estimation, foundations, forms, and concrete, rough framing, exterior finish, interior systems installation, interior finish, and carpentry related mathematics. (Administration time: 3 hours; Number of test items: 141)

Performance – Tool and material identification, square layout, builder's level, blueprint reading/sole plate layout, rafter layout, stairway stringer, and interior frame. (Administration time: 2 hours and 40 minutes; Number of jobs: 7)

COLLISION REPAIR AND REFINISHING - 5166

Written – Safety and fundamentals, structural, non-structural, mechanical and electrical systems, and painting and refinishing. (Administration time: 3 hours; Number of test items: 177)

Performance – Welding, sheet metal repair, vehicle measurement, refinishing, and masking. (Administration time: 3 hours and 45 minutes; Number of jobs: 5)

COMMERCIAL FOODS - 5167

Written – Safety, sanitation, culinary career overview, culinary techniques, recipes and culinary math, purchasing and management skills, menu design and nutrition, customer table service, and culinary equipment. (Administration time: 3 hours; Number of test items: 180)

Performance – Identification of hand tools, herbs, spices and flavorings, knife skills, and cooking skills. (Administration time: 3 hours and 30 minutes; Number of jobs: 3)

COMPUTER TECHNOLOGY - 5168

Written – Professional standards, ethics and business practices, general computer knowledge/concepts, PC hardware knowledge, PC software knowledge, networking and data communications, and security. (Administration time: 3 hours; Number of test items: 151)

Performance – File management using windows GUI, word processing applications, spreadsheet applications, and network connectivity. (Administration time: 3 hours; Number of jobs: 4)

CRIMINAL JUSTICE - 5169

Written – Crime scene handling, use of force continuum, criminal law and procedures, health issues, police concepts and skills, corrections concepts and skills, court system, communication, security: national, international and private, and understanding and working with special populations. (Administration Time: 3 hours; Number of test items: 179)

Performance – Crime scene investigation, arrest, and perform CPR on an adult. (Administration time: 2 hours and 10 minutes; Number of jobs: 3)

DIESEL TECHNOLOGY - 5170

Written – Safety, shop practices, tools and equipment, diesel engines, suspension and steering, brakes, electrical and electronic systems, and preventive maintenance. (Administration Time: 3 hours; Number of test items: 147)

Performance – Check and adjust rocker level clearance, cylinder liner installation, electrical testing, perform coolant system inspection, wheel bearing adjustment and brake stroke measurement. (Administration time: 2 hours and 30 minutes; Number of jobs: 5)

ELECTRICAL CONSTRUCTION - 5171

Written – OSHA regulations and electrical safety practices; meters, measurements, testing; identification of tools, materials, and components; National Electric Code (NEC); blueprints, specifications, and estimations; AC theory and magnetic theory; motor control circuits, logic circuits, and programmable logic controllers (PLCs); DC: basic electric and electron theories; circuit theorems and conversions; wiring, circuits, and installation; transformers; and motors. (Administration Time: 3 hours; Number of test items: 193)

Performance – Switch controls, conduit bending, and GFCI receptacles; doorbell circuit. (Administration time: 3 hours; Number of jobs: 2)

GENERAL DRAFTING AND DESIGN - 5172

Written - Preparing to draw: basic drawing and dimensioning skills, geometric construction, drawing techniques, applied mathematics, dimensioning skills and supplementary views. (Administration Time: 3 hours; Number of test items: 112)

Performance – Geometric construction, auxiliary views, drawing completion and dimensioning, machined part dimensioning, pattern development and section drawing. (Administration time: 2 hours, 25 minutes on a CAD system OR 3 hours, 50 minutes manually; Number of jobs: 6)

HEALTH ASSISTING - 5173

Written - Medical terminology, observation and communication, documentation and legalities of the health assisting profession, health assisting skills, body systems, first aid and general safety. (Administration Time: 3 hours; Number of test items: 143)

Performance - Hand washing and application/removal of personal protective devices, initiating new patient medical record, take vital signs, height and weight, transfer patient from bed to wheelchair, making an unoccupied bed. (Administration time: 1 hour, 40 minutes; Number of jobs: 5)

INDUSTRIAL MAINTENANCE MECHANICS - 5174

Written – Machinery and equipment, tools and safety, electronics and electrical principles, hydraulics and pneumatics, motors and motor controls, mechanism drives, industrial robotics systems, and blueprints and schematics. (Administration Time: 3 hours; Number of test items: 160)

Performance – Connect and operate a circuit, assemble a multiple shaft gear drive system, read and interpret an industrial blueprint, and troubleshoot an electrical control system. (Administration Time: 3 hours; Number of jobs: 4)

PLUMBING - 5175

Written – Safety, plumbing math, general plumbing practices, joining pipes and fittings, drainage, vent installation, water supply and distribution, hot water systems, traps, installing fixtures, and plumbing service and repair. (Administration time: 3 hours; Number of test items: 168)

Performance – Install and pressure test a DWV system, and install and prepare to leak test a water supply system. (Administration time: 3 hours; Number of jobs: 2)

PRECISION MACHINING - 5176

Written – Organization and shop practices, measurement/inspection, metallurgical processes and heat treating, blueprint interpretation and process planning, layout and benchwork, band saw machines, lathes, milling machines, surface grinder, and CNC programming preparation, and operations. (Administration time: 3 hours; Number of test items: 140)

Performance – Milling operations and lathe operations. (Administration time: 3 hours; Number of jobs: 2)

SMALL ENGINE TECHNOLOGY - 5177

Written – Safety, general shop practices, maintenance, lubrication systems, fuel system, carburetor fundamentals, governor, ignition, starters and alternators, cylinder head service and maintenance, engine assembly and troubleshooting. (Administration Time: 3 hours; Number of test items: 188)

Performance - Check and start engine, ignition service, measure parts, valve service, carburetor service, and invoicing parts. (Administration time: 3 hours; Number of jobs: 6)

TECHNICAL DRAFTING - 5178

Written – Basic drawing skills, geometric construction, applied mathematics, dimensioning skills, multiview drawing, threads and fasteners, manufacturing processes, and design principles. (Administration Time: 3 hours; Number of test items: 194)

Performance – Visualization, orthographic drawing, development, and assembly. (Administration time: 3 hours and 15 minutes; Number of jobs: 4)

WELDING - 5179

Written – Safety, welding symbols and blueprint reading, oxyfuel cutting, arc cutting process, physical characteristics and mechanical properties of metals, weld fit-up and quality, shielded metal arc welding, gas metal arc welding and flux cored arc welding, and gas tungsten arc welding. (Administration time: 3 hours; Number of test items: 131)

Performance - Oxyfuel cutting, SMAW vertical groove, GMAW spray horizontal fillet, aluminum GTAW horizontal fillet, and stainless steel GTAW horizontal fillet. (Administration time: 2 hours, 55 minutes; Number of jobs: 5)