

VOCATIONAL EDUCATION PROGRAM

Medium and Heavy Duty Truck and Bus Technician (Diesel)

I. PROGRAM REQUIREMENTS

Refer to the project-specific Schedule of Spaces for student stations, square footage, and for any requirements that may differ from the prototype requirements listed below:

- 1 Laboratory
- 1 Material Storage Room
- 1 Tool Storage Room
- 1 Flammable Storage Room
- 1 Project Storage Room
- 1 Related Classroom
- 1 Teacher Planning Area
- 1 Exterior Covered Parking/Work Area

II. PROGRAM FURNITURE AND EQUIPMENT

Refer to the Furniture and Equipment List for Owner-provided furniture and equipment.

III. SPECIAL CONSIDERATIONS

- Heating/Ventilation/Air Conditioning

Provide an exhaust system in the Laboratory, capable of removing fumes generated by test engines and vehicles.

- Floor

Provide epoxy coated concrete floor (color to be determined in design) in the Laboratory and Storage Rooms. The Laboratory floor should be adequately sloped to the floor drains.

Provide painted non-skid zone boundary lines around all owner-provided equipment.

- Walls

Provide a high gloss glazed, oil resistant wall coating in the Laboratory.

Provide chain link fence partitions (all metal construction) to fully enclose the Material Storage Room, Tool Storage Room, and Project Storage Room.

- Ceiling

Provide a 20' high ceiling in the Laboratory.

Provide a 10' high ceiling in the Storage Rooms.

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III. SPECIAL CONSIDERATIONS (continued)

- Windows

Where possible provide windows in the Laboratory, sill height to be minimum 5' above the floor.

Provide a half-glass door from the Teacher Planning Area into the Laboratory.

Provide an observation window, 3' wide x 4' high, from the Teacher Planning Area into the Related Classroom, sill height to be 36" above the floor.

Provide an observation window, 12' wide x 4' high, from the Related Classroom into the Laboratory, sill height to be 36" above the floor.

- Doors

In addition to a standard single door, provide an overhead roll-up door, 12' wide x 14' high (manually operated), from each service bay (number as required) to the Exterior Parking/Work Area.

Provide a wire Dutch-type door from the Laboratory into the Tool Storage Room.

Provide 4' wide wire mesh doors from the Laboratory into the Material Storage Room, and from the Laboratory into the Project Storage Room.

Provide 4' wide wire mesh doors from the Material Storage Room into the Tool Storage Room, and from the Project Storage Room into the Tool Storage Room.

- Plumbing

Provide one (1) wall mounted utility sink with cold water in the Laboratory.

Provide one (1) semi-circular wash station with three (3) faucets.

Provide one (1) pull-cord emergency shower with eyewash, in accordance with District Design Guidelines.

Provide an electric water cooler in the general vicinity of the Laboratory.

Provide two (2) hose bibs at opposite ends of the Laboratory and floor drains, number as required, in the Laboratory.

Provide at least one (1) hose bib in the outside covered work area.

- Communications

Provide a clock, speaker and intercom handset in the Laboratory and Related Classroom.

Provide a clock and speaker (no call-in handset) in the Teacher Planning Area.

Provide a data outlet with adjacent power outlet in the Laboratory, Related Classroom, and Teacher Planning Area, in accordance with District Design Guidelines.

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III. SPECIAL CONSIDERATIONS (continued)

- Communications (continued)

Provide a TV bracket with DVD bracket, CCTV jack, and adjacent power outlet in the related classroom, in accordance with District Design Guidelines.

- Electrical

Laboratory

Provide a duplex outlet at each Owner-provided student workbench and/or student workstation.

Provide power poles if required, located as directed.

Provide convenience outlets 10'-0" apart on three (3) walls.

Provide wall mounted electrical outlets as required to serve freestanding power tools and equipment.

Provide two (2) master disconnect switches to shut down all receptacles, located so as to be easily accessible to the teacher. Provide a keyed reset mounted adjacent to each master disconnect switch.

Provide 120v, cord reels with service light and three-prong outlet between each service bay.

Provide duplex electrical outlet between each roll-up door opening.

Provide 120v outlets at an appropriate amperage to operate stationary equipment, located as directed.

Provide 240v outlets as needed, located as directed.

- Gas and Air

Provide compressed air outlets as needed to operate stationary equipment, 120 psi, 10cfm, with pressure regulator and dryer at the compressor.

Provide compressed air hose reels between each service bay in proximity to operate air tools around service lifts.

- Fencing

Provide a 6' high chain link fence to enclose the Exterior Parking/Work Area with a 14' wide rolling gate.

- Service Drives

Provide a driveway from the main parking lot to the Exterior Parking/Work Area.

Provide convenient access from the driveway to the overhead roll-up door to facilitate delivery of materials.

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III. SPECIAL CONSIDERATIONS (continued)

- Parking

Provide an Exterior Parking/Work Area for three (3) trucks/tractors adjacent to the Laboratory.

- Contractor-Provided Equipment and Casework

Laboratory

Provide one (1) glasses/goggles sanitizing cabinet with 20 safety glasses and 10 goggles, in accordance with District Design Guidelines.

- Contractor-Provided Instructional Aids

Laboratory

Provide a Smartboard in accordance with District Design Guidelines.

Provide a 4' wide x 4' high tack-board, bottom to be mounted 36" above the floor.

Provide a wall-mounted video projector in accordance with District Design Guidelines.

- Other Considerations

In the Laboratory the owner will provide student workbenches and may provide student workstations (i.e. computer). The quantity, type of workbenches and workstations and the configuration will vary depending on the program and the design of the space.

In the Laboratory the work areas must be properly laid out to allow normal sequence of operations with a minimum of cross traffic.

Provide adequate clearances between Owner-provided machines to avoid interference between operators and to allow free flow of traffic and materials.