**Course Equivalency Worksheet**

**BFST 1301**

**FIRE SERVICE HYDRAULICS**

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| **Applicant Name:** | **FCDICE Number:** |
| **Email:** | **Date:** |

Applicants who wish to request a Course-to-Course Equivalency shall complete the following worksheet and attach the following information in the order that it appears on this list.

**Please note that BFST will not evaluate a Course-to-Course Equivalency Request until ALL the required information has been submitted.**

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| **Items Required for a**  **Course-To-Course Equivalency Determination** | **√ When**  **Attached / Completed** |
| 1. Create an email addressed to [FireCollegeTraining@MyFloridaCFO.com](mailto:FireCollegeTraining@MyFloridaCFO.com) |  |
| 1. Please note that there shall be only one Course-to-Course Equivalency Request per email. Requests for multiple Course-to-Course Equivalency Evaluations shall each be submitted individually in separate emails. |  |
| 1. The subject of the email shall be “Course-to-Course Equivalency Request.” |  |
| 1. Attach an educational syllabus or agenda for the class that includes: 2. The name and course number of the course that was completed. 3. The name of the institution that sponsored the course. 4. The contact information for the instructor. 5. The required number of classroom or interactive hours for the course. 6. A description of the course objectives, student learning outcomes, or job performance requirements covered in the course. |  |
| 1. Attach a verifiable transcript or record from the educational institution that shows proof of successful course completion. |  |
| 1. Attach this completed Course-to-Course Equivalency Worksheet that details how each of the Job Performance Requirements of the BFST-Approved Course were satisfied by the course for which equivalency is being requested. |  |

| **NFPA 1002**  **JPR’s** | **Job Performance Requirement** | **How was the JPR satisfied by the Course for which Equivalency is Requested?** |
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| **NFPA 1002**  5.1 General | The requirements of Fire Fighter 1 as specified in NFPA1001 (or the requirements of Advanced Exterior Industrial Fire Brigade Member or Interior Structural Fire Brigade Member as specified in NFPA1081) and the job performance requirements defined in Sections 5.1 and 5.2 shall be met prior to qualifying as a fire department driver/operator—pumper. | No action requred |
| **5.1.2** | Perform the routine tests, inspections, and servicing functions specified in the following list in addition to those in 4.2.1, given a fire department pumper, its manufacturer’s specifications, and policies and procedures of the jurisdiction, so that the operational status of the pumper is verified:  (1) Water tank and other extinguishing agent levels (if applicable)  (2) Pumping systems  (3) Foam systems  **(A) Requisite Knowledge**. Manufacturer’s specifications and requirements, and policies and procedures of the jurisdiction.  **(B) Requisite Skills**. The ability to use hand tools, recognize system problems, and correct any deficiency noted according to policies and procedures. |  |
| **5.2.1**  **Operations** | Produce effective hand or master streams, given the sources specified in the following list, so that the pump is engaged, all pressure control and vehicle safety devices are set, the  rated flow of the nozzle is achieved and maintained, and the apparatus  is continuously monitored for potential problems:  (1) Internal tank  (2)\*Pressurized source  (3) Static source  (4) Transfer from internal tank to external source  (**A) Requisite Knowledge**. Hydraulic calculations for friction loss and flow using both written formulas and estimation methods, safe operation of the pump, problems related to small-diameter or dead-end mains, low-pressure and private water supply systems, hydrant coding systems, and reliability of static sources.  **(B) Requisite Skills.** The ability to position a fire department pumper to operate at a fire hydrant and at a static water source, power transfer from vehicle engine to pump, draft, operate pumper pressure control systems, operate the volume/pressure transfer valve (multistage pumps only), operate auxiliary cooling systems, make the transition between internal and external water sources, and assemble hose lines,  nozzles, valves, and appliances. |  |
| **5.2.2** | Pump a supply line of 21⁄2 in. (65 mm) or larger, given are lay pumping evolution the length and size of the line and the desired flow and intake pressure, so that the correct pressure and flow are provided to the next pumper in the relay.  **(A) Requisite Knowledge**. Hydraulic calculations for friction loss and flow using both written formulas and estimation methods, safe operation of the pump, problems related to  small-diameter or dead-end mains, low-pressure and private water supply systems, hydrant coding systems, and reliability of static sources.  **(B) Requisite Skills**. The ability to position a fire department pumper to operate at a fire hydrant and at a static water source, power transfer from vehicle engine to pump, draft, operate pumper pressure control systems, operate the volume/pressure transfer valve (multistage pumps only), operate auxiliary cooling systems, make the transition between internal and external water sources, and assemble hose lines, nozzles, valves, and appliances. |  |
| **5.2.3** | Produce a foam fire stream, given foam-producing equipment, so that properly proportioned foam is provided.  **(A) Requisite Knowledge**. Proportioning rates and concentrations, equipment assembly procedures, foam system limitations, and manufacturer’s specifications.  **(B) Requisite Skills.** The ability to operate foam proportioning equipment and connect foam stream equipment. |  |
| **5.2.4** | Supply water to fire sprinkler and standpipe systems, given specific system information and a fire department pumper, so that water is supplied to the system at the correct volume and pressure.  **(A) Requisite Knowledge**. Calculation of pump discharge pressure; hose layouts; location of fire department connection; alternative supply procedures if fire department connection is not usable; operating principles of sprinkler systems as defined in NFPA 13, NFPA 13D, and NFPA 13R; fire department operations in sprinklered properties as defined in NFPA 13E; and operating principles of standpipe systems as defined in NFPA 14.  **(B) Requisite Skills**. The ability to position a fire department pumper to operate at a fire hydrant and at a static water source, power transfer from vehicle engine to pump, draft, operate pumper pressure control systems, operate the volume/pressure transfer valve (multistage pumps only), operate auxiliary cooling  systems, make the transition between internal and external water sources, and assemble hose lines, nozzles, valves, and appliances. |  |