

# NORTH DAKOTA DEPARTMENT OF TRANSPORTATION (NDDOT)

## ON-THE-JOB TRAINING PROGRAM MANUAL

The bidder's signature on the proposal sheet indicates the bidder agrees to take part in the On-the-Job Training (OJT) Program and to follow the OJT Program Manual and Special Provision. Contractors that fail to do so will be subject to suspension of progress payments or sanctions up to and including revocation of bidding privileges.

OJT is training conducted in a highway construction work environment designed to enable minority, female, and economically disadvantaged individuals to learn a bona fide skill and qualify for a specific occupation through demonstration and practice.

After a training program and trainee candidate have been approved, the contractor begins training its regular employee according to the approved program. The goal of this training is to retain the trainee as a permanent employee within the ND Highway Construction industry. OJT involves individuals at the entry level. Training is designed to help participants reach their fullest potential and become self-sufficient in the job.

### I. POLICY STATEMENT

The purpose of the OJT Program is to provide training in the highway construction industry for minority, female, and economically disadvantaged individuals, from this time known as the targeted group. Pursuant to 23 Code of Federal Regulations Part 230, Subpart A, Appendix B - Training Special Provisions, this program provides for on-the-job training aimed at developing journey-level workers in skilled trades.

The Contractor shall take all necessary and reasonable steps to ensure that minorities and women have the opportunity to compete for and participate as trainees or apprentices and to develop as journey-level workers employed in the skilled trades.

Contractors should select a training program(s) based on their company's employment/staffing needs as stated in the OJT Program Manual.

### II. INTRODUCTION/PROGRAM BACKGROUND

The OJT Program was originally prepared through the cooperative efforts of the Associated General Contractors of North Dakota (AGC); the Federal Highway Administration (FHWA); the North Dakota Department of Transportation (Department); and, other program stakeholders.

Successful operation of the OJT Program requires contractors to follow uniform and basic training procedures, keep records of trainee progress, and report each trainee's completion or termination.

### III. ASSIGNED OJT POSITIONS

A. Trainee positions are assigned based only on federal highway dollars awarded to contractors from April to March. Trainee assignments are not project specific; that means the contractor may train program participants on any project where training opportunities exist within the state of North Dakota.

The number of trainee positions assigned will be determined by formula based on calculations involving particular project specification numbers on applicable projects.

Once the formula calculations are determined the OJT Program Administrator completes a further analysis based on number of trainees per contractor, contractor work type, location, past assignments, etc.

The types of projects NOT applicable in the calculation to assign trainee positions are:

- County-only or state-only funded projects
- Emergency relief, concrete pavement repair (CPR), electrical, rest area, signing, striping projects
- Projects subject to Tribal Employment Rights Ordinances (TERO)
- Projects not let as part of NDDOT bid openings

- B. Contractors will receive the number of positions assigned and links to resources necessary for completion of program requirements via email.
- C. The number of trainee positions assigned to each contractor will increase proportionately, as shown below, for any applicable federally funded projects awarded to them.

For all federal highway dollars awarded from April to March the following year:

8,000,000 to 16,000,000	1	trainee
16,000,001 to 24,000,000	2	trainees
24,000,001 and above	3	trainees

A maximum of three (3) trainee positions in a federal fiscal year will be assigned to any prime contractor regardless of dollar amount. Carryover positions from a prior construction season are not included in the three trainee maximum, e.g., a contractor with one carryover and three assigned positions may have a total four trainees.

Contractors assigned OJT positions are required to attend one-on-one meetings with the OJT Program Administrator and the OJT Supportive Services Consultant in early spring. The meeting is conducted virtually via Microsoft TEAMS. At this meeting any changes to the program and other important information will be shared and the contractor will have an opportunity to ask any questions they may have.

Failure to follow the OJT Special Provision and OJT Program Manual may result in suspension of progress payments or sanctions up to and including revocation of bidding privileges.

#### IV. FUNDING

The Department will establish an OJT fund annually from which contractors may bill the Department directly for eligible trainee hours. The funds for payment of trainee hours on federal-aid projects will be made available based on 23 USC 504(e) to a maximum of \$100,000. The funds for payment of trainee hours on state-aid only projects will be allocated to a maximum of \$10,000.

#### V. ONLINE RESOURCES

*SFN 60226 Request for On-the-Job Training Program and Trainee Approval:*  
<http://www.dot.nd.gov/forms/sfn60226.pdf>

SFN 51023 Voucher for On-the-Job Training Program Hourly Reimbursement:  
<http://www.dot.nd.gov/forms/sfn51023.pdf>

Davis-Bacon and Related Acts (DBRA) Handbook:  
<https://www.dot.nd.gov/about-nddot/civil-rights/labor-compliance-program-davis-bacon>

## VI. APPROVALS REQUIRED

- A. Requests for Approval of Training Programs and Trainee Candidates must be submitted to Civil Rights Division (CRD). Contractors must request and receive program and trainee candidate approval in order to pay trainees less than the established Davis-Bacon wage for the job classification concerned. **No training program hours will count toward the fulfillment of an assigned trainee position or be eligible for reimbursement without prior approval.** No retroactive approval will be granted.
1. Submit SFN 60226 *Request for On-the-Job Training Program and Trainee Approval* with each trainee's employment application. <http://www.dot.nd.gov/forms/sfn60226.pdf> and the pre-approved training curriculum for each trainee position assigned by April 1 or within fifteen (15) calendar days of notification.
  2. Submit *SFN 7857 Application for Eligibility* directly to Job Service North Dakota (JSND) for approval of an economically disadvantaged individual for participation in the OJT Program.
- B. Pre-approved curriculum: NDDOT's OJT Program Manual contains pre-approved training curriculum for a number of skilled trade positions. Contractors should select a training program(s) based on their company's employment/staffing needs.
- C. Customized curriculum: To request a training curriculum not included in the pre-approved curriculum, submit a written request for approval by NDDOT Civil Rights Division.

The request must include:

- A training curriculum, including the classification requested, minimum number of hours required, and type of training the individual will receive to achieve journey-level worker status.
- A minimum wage scale.

If approved, each new classification must comply with the provisions specified in the OJT Program Manual. No hours worked prior to approval will be credited toward completion of the customized training program. Training programs for classifications not covered by the Davis-Bacon and Related Acts (DBRA) will be considered on a limited basis.

The contractor may commence its "customized" training as of the date of the written approval.

- D. Union apprenticeship and on-the-job training programs registered with the Bureau of Apprenticeship and Training (BAT), U.S. Department of Labor, may be used for trainee positions assigned under the OJT Program, provided the trainees or apprentices are minority, female, or economically disadvantaged. Nonminority males not certified as economically disadvantaged may only be used when the contractor

has requested and received approval, from the Department, for additional trainee positions. The apprenticeship indenture agreements serve as the trainee's job application and must be provided prior to any hours being credited toward OJT Program completion.

E. Power Equipment Operators:

The contractor may train an individual on a combination of equipment if each piece of equipment falls within the same groups of power equipment operators identified in the training curricula (groups 1-3 and groups 4-6). These power equipment operator groups are referenced to the federal DBRA wage rates contained in the contract proposal. As an example, a "utility operator" may receive training on a broom, a front-end loader less than 1½ cubic yards, or other piece of equipment that is used around a paver if each piece falls within either groups 1-3 or groups 4-6. When multiple wage rates apply, the trainee's wage will be based on the equipment being operated at the time or on the highest of the applicable wage rates.

Use of the classification "pickup machine operator (asphalt dump-person)" as a group 4 power equipment operator is considered standard industry practice. The classification is defined as: "Operates the controls on the pickup machine that runs in front of the paver, trips the levers on the dump trucks, and balances the loads for the paver. The pickup machine operates on similar principles as a shouldering machine."

VII. NDDOT'S RESPONSIBILITIES

- A. The NDDOT OJT supportive services (OJTSS) consultant will monitor excerpts from the weekly certified payrolls or LCP Tracker for NDDOT projects submitted with the monthly vouchers for reimbursement. On contracts where certified payrolls are not required and not available for supporting documentation, contractors may enter trainee wages, hours in training, and the project control number(s) (PCN) in a spreadsheet to support their reimbursement vouchers. In this case, contractors should work with OJTSS to assure that all information required for payment is provided.
- B. The OJTSS consultant will assess when the trainees have completed the specified number of hours and their wages are increased accordingly. The OJTSS consultant will also assure that applicable fringe benefits are paid either directly to the trainees or for the trainee into approved plans, funds, or programs.
- C. The OJTSS consultant is charged with visiting trainees and monitoring their progress under the OJT Program. To facilitate the on-site visits, the OJTSS consultant will contact contractors for the location of the trainees weekly.

VIII. CONTRACTOR'S RESPONSIBILITIES

- A. Consistently demonstrate efforts to recruit, hire, and train candidates for the OJT Program.
- B. Assign each trainee to a particular person—either a supervisor or an employee proficient in the skills to be trained—who shall see that the trainee is given timely, instructional experience. This person must be familiar with the OJT Program, keep proper records, and ensure completion of the required training hours in accordance with the training curriculum.
- C. Appoint a company employee who will be available and responsive to weekly

contacts by the OJTSS consultant. OJTSS monitors the status of assigned trainee positions (e.g., program and trainee approvals, trainees' progress, etc.). The OJTSS consultant will contact the individual listed on the company's approved SFN 60226 Request for OJT Trainee Approval. This person must reply to communications from the Department and the OJTSS consultant in a timely manner.

- D. Must have trainees available to the OJTSS consultant for at least two on-site visits during the construction season. The OJTSS consultant will be provided a private location to meet with the trainee and the trainee will be allowed as much time away from the project as necessary to complete the on-site visit.
- E. Make the trainer and project superintendent available to the OJTSS consultant for at least two on-site visits each construction season.
- F. Make trainees aware they are formally enrolled in the OJT program.
- G. Identify trainees on the payroll excerpts, for example: "grp. 4 roller operator trainee." This includes trainees in job classifications not covered by DBRA. Handwritten notes are appropriate for identification.
- H. Notify the Department when a trainee completes the number of hours required to graduate from the OJT Program. The Department will issue the trainee a confirmation letter as proof of the graduate's successful training program completion.
- I. Notify the Department to "propose graduation" or discontinue the training period of a trainee who has completed 90% or more of their hours and thereafter advance the trainee to journey-worker status.
- J. Elect to upgrade proficient trainees from one power equipment operator group or truck driver group to another, with the approval of CRD. Fewer hours are required to complete the upgraded position.

Minimum number of hours required:

Power Equipment Operator Groups 4-6 to Groups 1-3 = 400 hrs.  
Class C Truck Driver to Class B = 200 hrs.  
Class B Truck Driver to Class A = 200 hrs.

Depending on the variety of experience the trainee has gained under the previous curriculum, the difference in the hours may be deducted from the actual operation of the piece of equipment or truck. The contractor will need to review the trainee's past performance to make this determination.

- K. May hire commercial driver's license (CDL) holders as truck driver trainees. Those having over-the-road driving experience, with little or no highway construction experience, may be considered to have completed the Class C truck driver training curriculum and, therefore, are eligible to be upgraded to a Class B truck driver trainee, with the approval of CRD.
- L. May transfer trainees from one project to another to complete the OJT Program. If transfers are made, CRD must be notified and provided with the name of the trainer.
- M. May train trainees on municipal, private, or other non-highway work. These training hours must be paid at the OJT minimum wage scale to count toward their OJT Program completion; however, no program reimbursement will be made for those hours. Payrolls of employees trained on non-NDDOT projects must be provided to prove appropriate wages are paid.
- N. Must train trainees on projects within North Dakota. Cannot train trainees on projects

located outside of the state lines. The OJTSS consultant must be able to visit the trainee twice during their program. It is unreasonable for the OJTSS consultant to make these visits outside of the state.

- O. May delegate or reassign trainee positions to subcontractors, with the acceptance of the subcontractors and the approval of CRD. The prime contractor must verify that the trainee will be able to accumulate enough hours to complete his or her training program. If approved, the subcontractor must obtain training program and trainee approval from CRD before the trainee begins work under the OJT program. Program reimbursement will be made directly to the prime contractor. The trainee position will remain the responsibility of the prime contractor.
- P. May use trainees on projects subject to TERO requirements as part of the core crew. The training hours will count toward overall OJT Program completion; however, no program reimbursement will be made for those hours unless it is a NDDOT let project.
- Q. Must not use one trainee to simultaneously fill multiple trainee positions
- R. May use a trainee on a piece of equipment in groups 1-3 or groups 4-6 for one assigned trainee position, then once that trainee has completed the program, the trainee may be trained on a different piece of equipment in groups 1-3 or groups 4-6 to fulfill a second assigned trainee position. When a trainee is used for a second time within a group, the contractor must pay that trainee at the higher wage rate as described in paragraph B under Wage Rates (page 8).

#### IX. CLASSROOM TRAINING

- A. Classroom training may be used to train employees. Each classroom training curriculum must be approved by CRD if the contractor wishes to count the classroom hours as training hours and be reimbursed.

Submit a proposed classroom training curriculum to CRD for approval. Define the type of training the individual will receive, classroom training curriculum, and the minimum number of hours required. The Department will determine the number of hours of credit each trainee will receive toward their training. No retroactive approval will be granted.

Contractors will be reimbursed for classroom training hours after the trainee has completed 40 hours of work on highway construction projects.

Reimbursement for classroom training will be limited to 40 hours per trainee per construction season.

- B. The minimum wage scale to be used for classroom training will be that of the first federal-aid highway construction project on which the trainee will be employed. If the trainee is already employed on a federal-aid highway construction project, the trainee will be paid in accordance with the minimum wage scale applicable to that project. However, if the first project on which the trainee will be employed is a state funded only contract, the minimum wage scale to be used for the classroom training will be that of the appropriate DBRA wage in effect at the time of award of the state funded contract.

#### X. WAGE RATES

- A. When the contractor is submitting the trainee's hours toward training program, wages paid shall in no case be less than that of those stated in the approved curriculum. A

trainee working on a non-federal aid project, must be paid the DBRA wage rate in effect at the time of award for the type of work the trainee is performing as a trainee. Current and prior labor rates can be found on the NDDOT website at: <https://www.dot.nd.gov/about-nddot/civil-rights/labor-compliance-program-davis-bacon>

- B. The minimum wage rates shall not be less than 80% of the journey-worker rate for the first two quarters of training, 85% of the journey-worker rate for the third quarter, and 90% of the journey-worker rate for the fourth quarter.
- Under the power equipment operator training curricula only, once a trainee has completed a training curriculum in either groups 1-3 or groups 4-6, the contractor may enroll the trainee in another training curriculum on a different piece of equipment in either groups 1-3 or groups 4-6.
  - The minimum wage rate under the trainee's second program shall not be less than 85% of the journey-worker rate for the first two quarters of training, 90% of the journey-worker rate for the third quarter, and 95% of the journey-worker rate for the fourth quarter.
  - For the purpose of the OJT Program, a quarter is 25% of the hours the trainee works toward completion of their approved program. The first two quarters of a 550-hour training curriculum would end after 275 hours, the third quarter after 138 hours, and the fourth after 137 hours.
- C. At any time hours are being attributed toward the completion of the approved training program, trainees shall be paid full fringe benefit amounts, where applicable, in accordance to DBRA requirements. DBRA requirements can be found on the NDDOT website at <https://www.dot.nd.gov/about-nddot/civil-rights/labor-compliance-program-davis-bacon>
- D. At the completion of the OJT Program, the trainee shall receive the wages of a skilled journey-worker.

## XI. RECRUITMENT AND SELECTION

### A. Prerequisites:

Trainees must possess basic physical fitness for the work to be performed, dependability, willingness to learn, ability to follow instructions, and an aptitude to maintain a safe work environment. Trainees must be a North Dakota resident during their training program.

### B. Licenses:

Truck driver trainees must possess appropriate driver permits or licenses for the operation of Class A, B, and C trucks. When an instructional permit is used in lieu of a license, the trainee must be accompanied by an operator who:

1. Holds a license corresponding to the vehicle being operated;
2. Has had at least one year of driving experience; and
3. Is occupying the seat next to the driver.

### C. Recruitment:

1. Place notices and posters setting forth the contractor's Equal Employment

Opportunity (EEO) Policy and the availability of the OJT Program in areas readily accessible to employees, applicants for employment, and potential employees.

2. Employ members of the targeted group (minority, female, or economically disadvantaged individuals) for all trainee positions assigned in accordance with the OJT Program. Additional positions requested by the contractor may be filled by individuals outside of the targeted groups.
3. Conduct systematic and direct recruitment through public and private employee referral sources.
4. Screen present employees for upgrading to higher skilled crafts. A present employee may qualify as a trainee; however, no work hours will be reimbursed or counted toward program completion prior to training program and trainee approval by CRD.

D. Selection:

1. Hire and enroll OJT trainee candidates who qualify as an individual in the targeted group.
2. Select a training program(s) based on their company's employment/staffing needs.
3. Individuals in the targeted group having experience in the selected curriculum may be eligible to participate in the OJT Program providing they:
  - are not or have not been journey-workers in the selected curriculum, and/or
  - have not been previously trained in the selected curriculum.

## XII. BASIS OF PAYMENT

- A. Contractors will be paid \$4.00 for each hour of training in accordance with the OJT Program Manual.
- B. Reimbursement will be made directly to the contractor. Complete SFN 51023 Voucher for On-the-Job Training Program Hourly Reimbursement for each trainee. LCPtracker must be utilized on NDDOT projects for reporting certified payrolls. The OJTSS consultant will be verifying hours submitted on NDDOT projects through this online reporting system. For non-NDDOT projects the firm must attach excerpts from the weekly certified payrolls showing the trainee's hours, rate of pay, and how applicable fringe benefits were paid. Vouchers without excerpts from payrolls will not be paid until the excerpts are provided. If the excerpts from the payrolls are not provided within one week, the voucher will not be paid, and the trainee's hours will not be credited toward completion.
- C. On contracts where certified payrolls are not required and not available for supporting documentation, contractors may enter trainee wages, hours in training, and the project control number(s) (PCN) in a spreadsheet to support their reimbursement vouchers. In this case, contractors should work with OJTSS to assure that all information required for payment is provided.
- D. Submit completed vouchers to CRD for approval and processing by the fifteenth (15<sup>th</sup>)

calendar day of every following month the trainee is employed under the OJT Program.

Regardless, all vouchers for trainee hours worked on state funded only projects from July 1 to June 30 must be received by CRD no later than July 15 in order to be reimbursed. All vouchers for trainee hours worked on federally funded projects from October 1 to September 30 must be received by CRD no later than October 15 in order to be reimbursed. This is due to state and federal end-of-the-year budget fiduciary requirements.

XIII. FAILURE TO PROVIDE THE TRAINING OR HIRE THE TRAINEE AS A JOURNEY-WORKER

- A. The contractor is required to consistently demonstrate efforts to recruit, hire, and train candidates for the OJT Program.
- B. If the contractor does not show in a timely manner good faith efforts to recruit, hire, and train candidates in the targeted group, the Department may withhold progress payments
- C. If payments have been made, the Department will deduct the amount paid from the contractor's progress payment.
- D. No payment shall be made to a contractor for failure to provide the required training or failure to hire the trainee as a journey-worker when such failure is caused by the contractor and evidences a lack of good faith on the part of the contractor in meeting the requirements of this OJT Program Special Provision.
- E. Hiring a trainee to begin training as soon as feasible after start of work is evidence of a contractor's good faith efforts to comply with the OJT Program requirements. Additional evidence supporting a contractor's good faith efforts would be to keep the trainee employed as long as training opportunities exist in the approved work classification or until the trainee has completed his or her training program.
- F. It is not required that all trainees be employed for the entire length of the construction season. A contractor will have fulfilled its responsibilities under this OJT Special Provision if it has provided acceptable training to the number of trainees assigned.

XIV. UNFILLED OR INCOMPLETE TRAINEE POSITIONS

- A. By October 1, provide written explanation of the firm's good faith efforts for unfilled or incomplete trainee assignments to CRD. CRD will decide, on a case-by-case basis, whether to carry the assigned positions over to the next construction season.
- B. Positions carried over from the previous construction season must be among the first positions filled at season startup. To notify CRD of the trainee's rehiring, submit *SFN 60226 Request for On-the-Job Trainee Approval*, marking 'Check if Carryover Trainee' in the Approved Training Program section of the form. There is no need for the training position or a returning trainee to be re-approved.
- C. Sanctions, up to and including revocation of bidding privileges, may be imposed on the contractor for failure to provide sufficient explanation and documentation for reasons assigned trainee positions when unfilled or incomplete.

## Preapproved Training Curricula

### TRAINING CURRICULUM

#### POWER EQUIPMENT OPERATOR (Groups 1 through 3)

	<u>HOURS</u>
1. Orientation	
a. Observation of the company's general construction operations and policies .....	11
b. Company safety program and safety practices.....	33
c. Equipment orientation (starting and learning the controls).....	22
d. Staking and construction sequence.....	22
2. Care and Maintenance	
a. Routine fueling, lubrication, and equipment servicing.....	110
3. Operation of Equipment	
a. Special function of the unit .....	66
b. Equipment operation .....	<u>286</u>
<b>TOTAL</b>	<b>550</b>

The minimum wage rate\* under this program shall be:

80% of the journey-worker rate for the first two quarters of training (275 hours)

85% of the journey-worker rate for the third quarter of training (138 hours)

90% of the journey-worker rate for the fourth quarter of training (137 hours)

Once a trainee has completed a training program in groups 1-3, the contractor may enroll the trainee in another training program on a different piece of equipment in groups 1-3. The minimum wage rate\* under this program shall be:

85% of the journey-worker rate for the first two quarters of training (275 hours)

90% of the journey-worker rate for the third quarter of training (138 hours)

95% of the journey-worker rate for the fourth quarter of training (137 hours)

The actual training will vary, in most instances, from this approximate breakdown because of the type of construction the contractor has under contract, the stage of construction when the trainee is taking this basic course, and other similar circumstances. However, the basic intent of the training, as described in the criteria for the program, will be followed during the training of each trainee.

\*A copy of the federal Davis-Bacon wage rates are posted on the project bulletin board.

# TRAINING CURRICULUM

## POWER EQUIPMENT OPERATOR (Groups 4 through 6)

	<u>HOURS</u>
1. Orientation	
a. Observation of the company's general construction operations and policies.....	7
b. Company safety program and safety practices.....	21
c. Equipment orientation (starting and learning the controls).....	14
d. Staking and construction sequence.....	14
2. Care and Maintenance	
a. Routine fueling, lubrication, and equipment servicing.....	70
3. Operation of Equipment	
a. Special function of the unit .....	42
b. Equipment operation .....	<u>182</u>
<b>TOTAL</b>	<b>350</b>

The minimum wage rate\* under this program shall be:

- 80% of the journey-worker rate for the first two quarters of training (175 hours)
- 85% of the journey-worker rate for the third quarter of training (88 hours)
- 90% of the journey-worker rate for the fourth quarter of training (87 hours)

Once a trainee has completed a training program in groups 4-6, the contractor may enroll the trainee in another training program on a different piece of equipment in groups 4-6. The minimum wage rate\* under this program shall be:

- 85% of the journey-worker rate for the first two quarters of training (175 hours)
- 90% of the journey-worker rate for the third quarter of training (88 hours)
- 95% of the journey-worker rate for the fourth quarter of training (87 hours)

The actual training will vary, in most instances, from this approximate breakdown because of the type of construction the contractor has under contract, the stage of construction when the trainee is taking this basic course, and other similar circumstances. However, the basic intent of the training, as described in the criteria for the program, will be followed during the training of each trainee.

\* The federal Davis-Bacon wage rates provide the basis for the stated journey-worker rates and are to be posted on the project bulletin board.

<p><b>CARPENTERS</b></p> <p><b>CEMENT MASONS/FINISHERS</b></p> <p><b>LABORERS:</b></p> <p><b>Group 1</b></p> <p>Drill Runner Tender; Flaggers and Pilot Car Drivers; General Construction Laborer; Light Truck and Pickup Driver; Pipe Handler; Sack Shaker (cement and mineral filler); Salamander Heater and Blower Tender</p> <p><b>Group 2</b></p> <p>Bituminous Worker (Shoveler, Dumper, Raker, and Floater); Brick and Mason Tender; Bulk Cement Handler; Carpenter Tender; Chain Saw Operator; Chipping Hammer, Grinders, and Paving Brakers (tamper-dirt); Concrete Bucket Signalman; Concrete Curing Man (not water); Concrete Finisher Tender; Concrete Saw Operator; Concrete Vibrator Operator; Conduit Layer, telephone or electrical; Culvert Pipe Layer; Form Setter (pavement); Gas, Electric or Pneumatic Tool Operator; Kettleman (bitum. or lead); Multiplate Pipe Layer; Power Buggy Operator; Semi Skilled Laborer</p> <p><b>Group 3</b></p> <p>Bottom Man (sanitary sewer, storm sewer, water, and gas line); Caisson Worker; Concrete Mixer Operator (one bag capacity); Mortar Mixer</p> <p><b>Group 4</b></p> <p>Drill Runner (includes Wagon Churn or Air Track); Pipe Layers (sanitary sewer, storm sewer, water, and gas lines); Powderman, gunite and sandblast; Nozzleman; Reinforcing Steel Setters/Tiers</p>	<p><b>POWER EQUIPMENT OPERATORS:</b></p> <p><b>Group 1</b></p> <p>All Cranes, 60 tons and over; Cranes doing piling, sheeting, dragline/clam work; Derrick (Guy and Still); Gentry Crane Operator; Helicopter Operator; Mole Operator or Tunnel Mucking Machine; Power Shovel, 3 ½ cy and over; Traveling Tower Crane</p> <p><b>Group 2</b></p> <p>All Cranes, 21 tons and up to 59 tons; Backhoe Operator, 3 cy and over; Creter Crane; Dredge Operator, 12; and over; Equipment Dispatcher; Finish Motor Grader; Front End Loader Operator, 8 cy and over; Master Mechanic (when supervising 5 or more Mechanics); Mon-O-Rail Hoist Operator; Power Shovel, up to and including 3 ½ cy; Tugboat</p> <p><b>Group 3</b></p> <p>All Cranes, 20 tons and under; Asphalt Paving Machine Operator; Asphalt Plant Operator; Automated Grade Trimmer; Backhoe Operator, 1 cy up to and including 2 ½ cy; Boom Truck, Hydraulic, 8 tons and over; Cableway operator; Concrete Batch Plant Operator (electronic or manual); Concrete Mixer Paving Machine Operator; Concrete Paver, Bridge Decks; Concrete Pump; Concrete Spreader Operator and Belt Placer; Crushing Plant Operator; Dozer Operator; Dredge Operator or Engineer, 11" and under; Drill Rigs, Heavy Duty Rotary or Churn or Cable Drill; Front End Loader Operator, 3 ½ cy up to and including 7 ½ cy; Gravel Washing and Screening Plant Operator; Locomotive, all types; Mechanic or Welder, Heavy Duty; Motor Grader Operator; Pavement Breaker, Non-Hydro Hammer Type: Pipeline Wrapping, cleaning, and Bending Machine Operator; Power Actuated Auger and Horizontal Boring Machine Operator, 6" and over; Refrigeration Plant Engineer; Rotomill Machine (Surface Planer), 43; and over; Scraper Operator; Slip Form concrete Paving Operator; Tandem Pushed Quad 9 or similar; Tractor with Boom Attachment; Trenching Machine Operator, 100 H.P. and over</p>
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**POWER EQUIPMENT OPERATORS:**

**Group 4**

Articulated/Off Road Hauler; Asphalt Dump Person; Asphalt Paving Screed Operator; Backhoe, up to and including 1/2 cy; Console Board Operator; Distributor Operator (Bituminous); Forklift Operator; Front End Loader, 1-1/2 cy up to and including 3 cy; Grade Person; Gravel Screening Plant Operator (not crushing or washing); Greaser; Laser Screed Operator; Longitudinal Float and Spray Operator; Motor Grader Operator (Haul Road); Paving Breaker, Hydro Hammer Type; Pugmill Operator; Push Tractor; Roller, Steel and Rubber on Hot Mix Asphalt Paving; Rotomill Machine (Surface Planer), up to and including 42"; Sand and Chip Spreader; Self-Propelled Sheepsfoot Packer with or without Blade Attachment; Self-Propelled Traveling Soil Stabilizer; Sheepsfoot Packer with Dozer Attachment, 100 H.P. and over; Shouldering Machine; Slip Form, Curb and Gutter Operator; Tamping Machine Operator; Tie Tamper and Ballast Machine; Trenching Machine Operator, 46 H.P. up to and including 99 H.P.; Truck Mechanic; Tub Grinder; Well Points

**Group 5**

Boom Truck, A-Frame Or Hydraulic, 2 tons up to and Including 7 tons; Broom, Self-Propelled; Concrete Saw (Power Operated); Front End Loader Operator, less than 1-1/2 cy; Mobile Cement Mixer; Oiler; Power Actuated Auger and Horizontal Boring Machine Operator, up to and including 5"; Roller(on other than Hot Mix Asphalt Paving); Vibrating Packer Operator (Pad Type) (Self-Propelled); Water Spraying Equipment, Self-Propelled

**POWER EQUIPMENT OPERATORS:**

**Group 6**

Brakeman or Switchman; Curb Machine Operator (Manual); Dredge or Tugboat Deckhand; Drill Truck Gravel/Testing Operator; Form Trench Digger (Power); Guniting Operator; Gunall; Paint Machine Striping Operator; Pick-up Sweeper, 1 cy and over Hopper Capacity; Scissors Jack (Self-propelled) Platform Lift; Straw Mulcher and Blower; Stump chipper Operator; Tractor Pulling Compaction or Aerating Equipment; Trenching Machine Operator, up to and including 45 H.P.

**TRUCK DRIVERS:**

Single-Axle Truck  
Tandem-and Tri-Axle Truck  
Tandem-and Tri-Axle Semi  
Lowboy  
Off Road Heavy Duty End Dumps, 20 yards and Under  
Euclid, Over 20 Yards

**TRAINING CURRICULUM**  
**TRUCK DRIVER (CLASSES A, B, C)**

		<b>HOURS</b>		
		<u><b>A</b></u>	<u><b>B</b></u>	<u><b>C</b></u>
1.	Orientation			
	a. Observation of the company's general construction operations and policies .....	10	10	10
	b. Company safety program and safety practices .....	20	20	20
	c. Study of highway driving laws .....	10	10	10
	d. Equipment orientation (starting and learning the controls and basic maneuvers) .....	10	10	10
	e. Pre-trip inspection .....	20	20	20
2.	Care and Maintenance			
	a. Routine fueling, lubrication, servicing, and minor maintenance .....	50	40	30
3.	Operation of Equipment			
	a. Advance moving of equipment .....	30	25	20
	b. Equipment operation .....	<u>350</u>	<u>265</u>	<u>180</u>
<b>TOTAL</b>		500	400	300

The minimum wage rates\* under this program shall be:

	<u><b>A</b></u>	<u><b>B</b></u>	<u><b>C</b></u>
80% of the journey-worker rate for the first two quarters of training	250	200	150
85% of the journey-worker rate for the third quarter of training	125	100	75
90% of the journey-worker rate for the fourth quarter of training	125	100	75

The actual training will vary, in most instances, from this approximate breakdown because of the type of construction the contractor has under contract, the stage of construction when the trainee is taking this basic course, and other similar circumstances. However, the basic intent of the training, as described in the criteria for the program, will be followed during the training of each trainee.

\* The federal Davis-Bacon wage rates provide the basis for the stated journey-worker rates and are to be posted on the project bulletin board.

**TRAINING CURRICULUM**  
**STRUCTURAL CARPENTER**

**HOURS**

1.	Applied Techniques of Highway Structures Construction		
	a. Pier, pile, and cap formwork .....		67
	b. Decking formwork .....		67
	c. Endwall formwork.....		16
	d. Box culverts, inlet, and headwall formwork .....		100
	e. Preparation of steel and other metals for use .....		67
	f. Concrete pouring and use of trowels or floats .....		67
2.	Stripping and Salvage of Forms for Reuse .....		67
3.	Orientation and Instruction With Application		
	a. Safe use of tools of the trade.....		13
	b. Job safety procedures .....		16
	c. Construction plan reading and application .....		<u>20</u>
	<b>TOTAL</b>		<b>500</b>

The minimum wage rate\* under this program shall be:

- 80% of the journey-worker rate for the first two quarters of training (250 hours)
- 85% of the journey-worker rate for the third quarter of training (125 hours)
- 90% of the journey-worker rate for the fourth quarter of training (125 hours)

A certificate of completion as a highway construction structural carpenter will be awarded to the employee.

The training may vary from this breakdown due to the type of construction the contractor has under contract, the stage of construction when the trainee is taking this basic course, and other similar circumstances. However, the basic intent of the training, as described in the criteria for the program, will be followed during the training of each trainee.

\*The trainee's rate of pay shall be based on that of the highway construction carpenter classification in the federal Davis-Bacon wage rates contained in the contract proposal. The federal Davis-Bacon wage rates provide the basis for the stated journey-worker rates and are to be posted on the project bulletin board.

# TRAINING CURRICULUM

## CONCRETE FINISHER

### HOURS

1.	Orientation	
	a.	Observation of the company's general construction operations and policies..... 6
	b.	Company safety program and safety practices ..... 10
	c.	Observation of use of straightedge and steel trowels..... 17
	d.	Observation of forming of and finishing of edges and joints ..... 17
2.	Care and Maintenance	
	a.	Safety procedures ..... 3
	b.	Routine cleaning of work area and materials, handling of materials and tools, and handling of canvas or burlap strips ..... 130
3.	Operation of Equipment	
		Safe operating procedures..... 6
		Basic operation of tools ..... 67
		Use of straightedge or steel trowels..... 87
		Forming and finishing of joints, curbs, and gutters..... <u>157</u>
		<b>TOTAL</b> 500

The minimum wage rate\* under this program shall be:

80% of the journey-worker rate for the first two quarters of training (250 hours)

85% of the journey-worker rate for the third quarter of training (125 hours)

90% of the journey-worker rate for the fourth quarter of training (125 hours)

The actual training will vary, in most instances, from this approximate breakdown because of the type of construction the contractor has under contract, the stage of construction when the trainee is taking this basic course, and other similar circumstances. However, the basic intent of the training, as described in the criteria for the program, will be followed during the training of each trainee.

\* The federal Davis-Bacon wage rates provide the basis for the stated journey-worker rates and are to be posted on the project bulletin board.