October 7, 2019

Linh Kieu  
Bureau of Safe Drinking Water  
Nevada Division of Environmental Protection  
901 South Stewart, Suite 4001  
Carson City, NV  89701

Dear Mr. Kieu,

Enclosed you will find the Water Treatment and Water Distribution Summary Reports for the certification examinations that took place on September 19, 2019 at various sites throughout the State.

The individual results have been sent in a separate email to you and Max Sosa. Should you have any questions or need further information, please contact me at 909.291.2100 or by email genriquez@ca-nv-awwa.org. You are also welcome to contact Steven Garner, Certification Manager at 916.889.8465 or by email sgARNER@CA-NV-AWWA.ORG.

Sincerely,

Gina Enriquez  
Certification Specialist  
CA-NV AWWA

cc:  Max Sosa  
Rachel Weingart  
Yan Zhang  
Will Raymond  
Steven Garner
Examination Summary Reports
September 2019 Examinations

Prepared for
Bureau of Safe Drinking Water, Nevada Division of Environmental Protection

Prepared By
California – Nevada Section of the American Water Works Association
October 7, 2019
Overall Exam Results
Exam Analysis Pass/Failure Rate

Water Distribution - Entire State:
26  Passed the Exam
18  Failed the Exam

Water Treatment - Entire State:
18  Passed the Exam
05  Failed the Exam

By Region:

Northern NV: 23 Testers
Passing Rate of 61%
Failure Rate of 39%

Southern NV: 21 Testers
Passing Rate of 57%
Failure Rate of 43%

By Region:

Northern NV: 11 Testers
Passing Rate of 82%
Failure Rate of 18%

Southern NV: 12 Testers
Passing Rate of 75%
Failure Rate of 25%
### Analysis Pass/Failure Rate

by Grade Level/Discipline

<table>
<thead>
<tr>
<th>Water Distribution - Entire State:</th>
<th>Water Treatment - Entire State:</th>
</tr>
</thead>
<tbody>
<tr>
<td>26 Passed the Exam</td>
<td>18 Passed the Exam</td>
</tr>
<tr>
<td>18 Failed the Exam</td>
<td>05 Failed the Exam</td>
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### By Discipline Pass/Failure:

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<tr>
<th>Distribution Grade 1 (D1)</th>
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<tbody>
<tr>
<td>11 Passed</td>
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<tr>
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<td>06 Failed</td>
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<td>06 Failed</td>
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<td>03 Failed</td>
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DISTRIBUTION OPERATOR CERTIFICATION
The Topics Identified Below Had a "Partial Mastering" Rate of More Than 20%

Grade I – Distribution

- Install Equipment
- Perform Maintenance
- Perform Security, Safety & Admin
- Operate Equipment
- Monitor, Evaluate & Adjust Disinfection

Grade II – Distribution

- Perform Security, Safety & Admin
- Monitor, Evaluate & Adjust Disinfection
- System Information / Components
- Install Equipment
- Perform Maintenance
- Operate Equipment
- Laboratory Analysis

Grade III – Distribution

- Perform Maintenance
- Perform Security, Safety & Admin
- System Information / Components
- Monitor, Evaluate & Adjust Disinfection
- Operate Equipment
- Laboratory Analysis

Grade IV – Distribution

- Perform Maintenance
- Laboratory Analysis
- Operate Equipment
- Monitor, Evaluate & Adjust Disinfection
- Perform Security, Safety & Admin
- Install Equipment
- System Information / Components
Treatment Operator Certification
The Topics Identified Below Had a "Partial Mastering" Rate of More Than 20%

Grade I – Treatment
- Laboratory Analyses
- Comply w/Drinking Water Regs
- Evaluate Characteristics of Source Water

Grade II – Treatment
- Laboratory Analyses
- Monitor, Evaluate & Adjust Treatment
- Perform Security, Safety, & Administration
- Comply w/Drinking Water Regs
- Operate & Maintain Equipment

Grade III – Treatment
- Evaluate Characteristics of Source Water
- Monitor, Evaluate & Adjust Treatment
- Laboratory Analyses
- Operate & Maintain Equipment
- Perform Security, Safety, & Administration
- Comply w/Drinking Water Regs

Grade IV – Treatment
- Operate & Maintain Equipment
- Monitor, Evaluate & Adjust Treatment
- Laboratory Analyses
- Perform Security, Safety, & Administration
# Mastery Summary Report
for ABC Water Distribution Class I

Test Name: ABC1264D
Scoring Date: 10/4/2019

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<th>Objective</th>
<th># M</th>
<th># PM</th>
<th># NM</th>
<th>% M</th>
<th>% PM</th>
<th>% NM</th>
<th>PTS</th>
<th>HIGH</th>
<th>LOW</th>
<th>AVG</th>
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<tr>
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<td>17.00</td>
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# of Students: 14

Test version: 0
ABC Water Distribution Class I Exam

ABC1264D

Test Name: ABC1264D
Test Date: 10/12/2012
Number of Examinees: 14
Number of Items: 100
Maximum Possible Points: 100.00
Highest Score: 89.00 (89.00)
Lowest Score: 58.00 (58.00)
Median: 76.00 (76.00)
Mean: 76.14 (76.14)
Standard Deviation: 9.44
Test Reliability: 0.83
Standard Error of Measurement: 3.86
# M  Number Mastering  % M  % Mastering  PTNS  Possible Points  
# PM  Number Partial Mastering  % PM  % Partial Mastering  HIGH  Highest Points  
# NM  Number Not Mastering  % NM  % Not Mastering  LOW  Lowest Points  
AVG  Average Points  

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<tr>
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<th># M</th>
<th># PM</th>
<th># NM</th>
<th>% M</th>
<th>% PM</th>
<th>% NM</th>
<th>PTS</th>
<th>HIGH</th>
<th>LOW</th>
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TEST STATISTICS REPORT
ABC Water Distribution Class II Exam
ABC1017D

![Bar chart showing student scores]

Test Name: ABC1017D
Test Date: 10/12/2012
Number of Examinees: 17
Number of Items: 100
Maximum Possible Points: 100.00
Highest Score: 81.00 (81.00)
Lowest Score: 55.00 (55.00)
Median: 73.00 (73.00)
Mean: 70.47 (70.47)
Standard Deviation: 8.67
Test Reliability: 0.77
Standard Error of Measurement: 4.17
# M | Number Mastering | % M | % Mastering | PTS | Possible Points | HIGH | Highest Points | LOW | Lowest Points | AVG | Average Points
---|-------------------|-----|-------------|-----|----------------|------|----------------|-----|---------------|-----|---------------
# PM | Number Partial Mastering | % PM | % Partial Mastering |     |                |      |                |     |               |     |               
# NM | Number Not Mastering | % NM | % Not Mastering |     |                |      |                |     |               |     |               

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<th># NM</th>
<th>% M</th>
<th>% PM</th>
<th>% NM</th>
<th>PTS</th>
<th>HIGH</th>
<th>LOW</th>
<th>AVG</th>
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TEST STATISTICS REPORT
ABC Water Distribution Class III Exam
ABC1018D

![Bar chart showing student performance]

Test Name: ABC1018D  
Test Date: 10/12/2012  
Number of Examinees: 9  
Number of Items: 100  
Maximum Possible Points: 100.00  
Highest Score: 80.00 (80.00)  
Lowest Score: 56.00 (56.00)  
Median: 64.00 (64.00)  
Mean: 66.44 (66.44)  
Standard Deviation: 8.57  
Test Reliability: 0.76  
Standard Error of Measurement: 4.24
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<th># PM</th>
<th># NM</th>
<th>% M</th>
<th>% PM</th>
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TEST STATISTICS REPORT
ABC Water Distribution Class IV Exam
ABC1019D

Test Name: ABC1019D
Test Date: 10/12/2012
Number of Examinees: 4
Number of Items: 100
Maximum Possible Points: 100.00
Highest Score: 73.00 (73.00)
Lowest Score: 43.00 (43.00)
Median: 65.00 (65.00)
Mean: 61.50 (61.50)
Standard Deviation: 12.90
Test Reliability: 0.89
Standard Error of Measurement: 4.36
# M  Number Mastering  % M  % Mastering  PTS  Possible Points
# PM Number Partial Mastering  % PM  % Partial Mastering  HIGH Highest Points
# NM Number Not Mastering  % NM  % Not Mastering  LOW Lowest Points

Average Points

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<th># NM</th>
<th>% M</th>
<th>% PM</th>
<th>% NM</th>
<th>PTS</th>
<th>HIGH</th>
<th>LOW</th>
<th>AVG</th>
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TEST STATISTICS REPORT
ABC Water Treatment Class I Exam
ABC1266W

Test Name: ABC1266W
Test Date: 10/12/2012
Number of Examinees: 15
Number of Items: 100
Maximum Possible Points: 100.00
Highest Score: 93.00 (93.00)
Lowest Score: 68.00 (68.00)
Median: 78.00 (78.00)
Mean: 79.13 (79.13)
Standard Deviation: 7.64
Test Reliability: 0.78
Standard Error of Measurement: 3.60
# M  Number Mastering  % M  % Mastering  PTS  Possible Points  
# PM  Number Partial Mastering  % PM  % Partial Mastering  HIGH  Highest Points  
# NM  Number Not Mastering  % NM  % Not Mastering  LOW  Lowest Points  

<table>
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<th># PM</th>
<th># NM</th>
<th>% M</th>
<th>% PM</th>
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<th>PTS</th>
<th>HIGH</th>
<th>LOW</th>
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TEST STATISTICS REPORT
ABC Water Treatment Class II Exam
ABC1042W

Test Name: ABC1042W
Test Date: 4/14/2011
Number of Examinees: 4
Number of Items: 100
Maximum Possible Points: 100.00
Highest Score: 81.00 (81.00)
Lowest Score: 67.00 (67.00)
Median: 73.50 (73.50)
Mean: 73.75 (73.75)
Standard Deviation: 5.74
Test Reliability: 0.46
Standard Error of Measurement: 4.21
# M        # PM          # NM        Objective                        # M   # PM   # NM   % M    % PM    % NM    PTS   HIGH   LOW   AVG

66.67       33.33       0            Perform Security, Safety, & Admin 2     1     0      66.67  33.33  0.00  18.00  14.00  11.00  12.67
33.33       66.67       0            Laboratory Analyses               1     2     0      33.33  66.67  0.00  11.00  10.00  6.00   7.67
66.67       33.33       0            Comply w/ Drinking Water Regs     2     1     0      66.67  33.33  0.00  11.00  10.00  7.00   8.67
66.67       33.33       0            Operate & Maintain Equipment      2     1     0      66.67  33.33  0.00  24.00  19.00  14.00  17.00
33.33       66.67       0            Eval Characteristics of Source Water 1     2     0       33.33  66.67  0.00   5.00  4.00  2.00   3.00
33.33       66.67       0            Monitor, Eval, & Adjust Treatment  1     2     0       33.33  66.67  0.00  31.00  25.00  18.00  20.67
TEST STATISTICS REPORT
ABC Water Treatment Class III Exam
ABC1043W

Test Name: ABC1043W
Test Date: 10/12/2012
Number of Examinees: 3
Number of Items: 100
Maximum Possible Points: 100.00
Highest Score: 80.00 (80.00)
Lowest Score: 61.00 (61.00)
Median: 68.00 (68.00)
Mean: 69.67 (69.67)
Standard Deviation: 9.61
Test Reliability: 0.81
Standard Error of Measurement: 4.19
# M | Number Mastering | % M | % Mastering | PTS | Possible Points
---|------------------|-----|-------------|-----|----------------
# PM | Number Partial Mastering | % PM | % Partial Mastering | HIGH | Highest Points
# NM | Number Not Mastering | % NM | % Not Mastering | LOW | Lowest Points

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<th># PM</th>
<th># NM</th>
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TEST STATISTICS REPORT
ABC Water Treatment Class IV Exam
ABC1044W

64.00
Raw Score

Test Name: ABC1044W
Test Date: 10/12/2012
Number of Examinees: 1
Number of Items: 100
Maximum Possible Points: 100.00
Highest Score: 64.00 (64.00)
Lowest Score: 64.00 (64.00)
Median: 64.00 (64.00)
Mean: 64.00 (64.00)
Standard Deviation: -
Test Reliability: -
Standard Error of Measurement: -