

- 三隅・益田道路(遠田IC改良工事(受注者:宮田建設工業(株)))において、中学校を対象とした現場見学会を開催。
- 建設業の紹介、ICT施工の概要、活用効果、ドローン操作とMRやICT建設機械試乗を体験。
- 見学会に入る前に「建設業のイメージ」を生徒が討議して発表。
見学会後の中学生の感想より、「建設業のイメージ」の向上が確認できた。

- 開催日：令和2年11月19日(木)～11月20日(金) 11:00～15:00
- 見学場所：益田市遠田町地内(三隅・益田道路 遠田IC改良工事)
- 実施内容：建設業の紹介(土木とは)、i-Constructionを行う社会背景、ICT施工の概要紹介、ICT活用効果等の紹介、ICT建設機械の試乗、MR(複合現実)体験
- 参加者：益田市立益田中学校1年生 134名(4クラス)



班別討議状況



班別発表状況

建設業イメージ班別討議結果

The handwritten notes are organized into a grid of approximately 12 columns and 4 rows. The content includes:

- Column 1:** 危険 (Danger), 労働 (Labor), 男性が多い (Many men), 女性が少ない (Few women), 暑そう (Hot), 作業が多い (Lots of work), 危険な作業 (Dangerous work).
- Column 2:** トンネル (Tunnel), 道路作り (Road construction), 大変 (Tough), 危険 (Danger), 重労働 (Heavy labor), 命がけ (Risking lives), 休みが少ない (Few breaks), 男(多)女(少) (Men (many) Women (few)).
- Column 3:** 道路を作る(新しい) (Building roads (new)), トンネルを作る (Building tunnels), 道路を作る(古い) (Building roads (old)), 危険 (Danger), 重労働 (Heavy labor), 命がけ (Risking lives), 休みが少ない (Few breaks), 男(多)女(少) (Men (many) Women (few)).
- Column 4:** 道路を作る (Building roads), トンネルを作る (Building tunnels), 道路を作る (Building roads), 危険 (Danger), 重労働 (Heavy labor), 命がけ (Risking lives), 休みが少ない (Few breaks), 男(多)女(少) (Men (many) Women (few)).
- Column 5:** 道路を作る (Building roads), トンネルを作る (Building tunnels), 道路を作る (Building roads), 危険 (Danger), 重労働 (Heavy labor), 命がけ (Risking lives), 休みが少ない (Few breaks), 男(多)女(少) (Men (many) Women (few)).
- Column 6:** 道路を作る (Building roads), トンネルを作る (Building tunnels), 道路を作る (Building roads), 危険 (Danger), 重労働 (Heavy labor), 命がけ (Risking lives), 休みが少ない (Few breaks), 男(多)女(少) (Men (many) Women (few)).
- Column 7:** 道路を作る (Building roads), トンネルを作る (Building tunnels), 道路を作る (Building roads), 危険 (Danger), 重労働 (Heavy labor), 命がけ (Risking lives), 休みが少ない (Few breaks), 男(多)女(少) (Men (many) Women (few)).
- Column 8:** 道路を作る (Building roads), トンネルを作る (Building tunnels), 道路を作る (Building roads), 危険 (Danger), 重労働 (Heavy labor), 命がけ (Risking lives), 休みが少ない (Few breaks), 男(多)女(少) (Men (many) Women (few)).
- Column 9:** 道路を作る (Building roads), トンネルを作る (Building tunnels), 道路を作る (Building roads), 危険 (Danger), 重労働 (Heavy labor), 命がけ (Risking lives), 休みが少ない (Few breaks), 男(多)女(少) (Men (many) Women (few)).
- Column 10:** 道路を作る (Building roads), トンネルを作る (Building tunnels), 道路を作る (Building roads), 危険 (Danger), 重労働 (Heavy labor), 命がけ (Risking lives), 休みが少ない (Few breaks), 男(多)女(少) (Men (many) Women (few)).
- Column 11:** 道路を作る (Building roads), トンネルを作る (Building tunnels), 道路を作る (Building roads), 危険 (Danger), 重労働 (Heavy labor), 命がけ (Risking lives), 休みが少ない (Few breaks), 男(多)女(少) (Men (many) Women (few)).
- Column 12:** 道路を作る (Building roads), トンネルを作る (Building tunnels), 道路を作る (Building roads), 危険 (Danger), 重労働 (Heavy labor), 命がけ (Risking lives), 休みが少ない (Few breaks), 男(多)女(少) (Men (many) Women (few)).

現場見学会後の中学生の感想(概要)

【見学前の建設業の主なイメージ】

- ◆ 力仕事、きつい、危ない
- ◆ めんどくさい
- ◆ 男性ばかりの職場
- ◆ 地味



【見学後の主な感想】

- 機械の力を使ったり、ICT等パソコンを使って安全にできそうだと
思った。
- ICTが導入され、女性でも簡単にできる仕事になったことを知った。
1人でも楽しそう。
- 女性も現場にいることに驚き。女性も活躍できる職場。
- 地味ではなく、カッコイイ仕事

現場見学会後の中学生の感想(一部抜粋)と中学校からのお礼状

最初の工事働くイメージは、大変そうか、あんな大変な仕事(3にも
さうそう思。7.14.2.3.4.5.6.7.8.9.10.11.12.13.14.15.16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.49.50.51.52.53.54.55.56.57.58.59.60.61.62.63.64.65.66.67.68.69.70.71.72.73.74.75.76.77.78.79.80.81.82.83.84.85.86.87.88.89.90.91.92.93.94.95.96.97.98.99.100.101.102.103.104.105.106.107.108.109.110.111.112.113.114.115.116.117.118.119.120.121.122.123.124.125.126.127.128.129.130.131.132.133.134.135.136.137.138.139.140.141.142.143.144.145.146.147.148.149.150.151.152.153.154.155.156.157.158.159.160.161.162.163.164.165.166.167.168.169.170.171.172.173.174.175.176.177.178.179.180.181.182.183.184.185.186.187.188.189.190.191.192.193.194.195.196.197.198.199.200.201.202.203.204.205.206.207.208.209.210.211.212.213.214.215.216.217.218.219.220.221.222.223.224.225.226.227.228.229.230.231.232.233.234.235.236.237.238.239.240.241.242.243.244.245.246.247.248.249.250.251.252.253.254.255.256.257.258.259.260.261.262.263.264.265.266.267.268.269.270.271.272.273.274.275.276.277.278.279.280.281.282.283.284.285.286.287.288.289.290.291.292.293.294.295.296.297.298.299.300.301.302.303.304.305.306.307.308.309.310.311.312.313.314.315.316.317.318.319.320.321.322.323.324.325.326.327.328.329.330.331.332.333.334.335.336.337.338.339.340.341.342.343.344.345.346.347.348.349.350.351.352.353.354.355.356.357.358.359.360.361.362.363.364.365.366.367.368.369.370.371.372.373.374.375.376.377.378.379.380.381.382.383.384.385.386.387.388.389.390.391.392.393.394.395.396.397.398.399.400.401.402.403.404.405.406.407.408.409.410.411.412.413.414.415.416.417.418.419.420.421.422.423.424.425.426.427.428.429.430.431.432.433.434.435.436.437.438.439.440.441.442.443.444.445.446.447.448.449.450.451.452.453.454.455.456.457.458.459.460.461.462.463.464.465.466.467.468.469.470.471.472.473.474.475.476.477.478.479.480.481.482.483.484.485.486.487.488.489.490.491.492.493.494.495.496.497.498.499.500.501.502.503.504.505.506.507.508.509.510.511.512.513.514.515.516.517.518.519.520.521.522.523.524.525.526.527.528.529.530.531.532.533.534.535.536.537.538.539.540.541.542.543.544.545.546.547.548.549.550.551.552.553.554.555.556.557.558.559.560.561.562.563.564.565.566.567.568.569.570.571.572.573.574.575.576.577.578.579.580.581.582.583.584.585.586.587.588.589.590.591.592.593.594.595.596.597.598.599.600.601.602.603.604.605.606.607.608.609.610.611.612.613.614.615.616.617.618.619.620.621.622.623.624.625.626.627.628.629.630.631.632.633.634.635.636.637.638.639.640.641.642.643.644.645.646.647.648.649.650.651.652.653.654.655.656.657.658.659.660.661.662.663.664.665.666.667.668.669.670.671.672.673.674.675.676.677.678.679.680.681.682.683.684.685.686.687.688.689.690.691.692.693.694.695.696.697.698.699.700.701.702.703.704.705.706.707.708.709.710.711.712.713.714.715.716.717.718.719.720.721.722.723.724.725.726.727.728.729.730.731.732.733.734.735.736.737.738.739.740.741.742.743.744.745.746.747.748.749.750.751.752.753.754.755.756.757.758.759.760.761.762.763.764.765.766.767.768.769.770.771.772.773.774.775.776.777.778.779.780.781.782.783.784.785.786.787.788.789.790.791.792.793.794.795.796.797.798.799.800.801.802.803.804.805.806.807.808.809.810.811.812.813.814.815.816.817.818.819.820.821.822.823.824.825.826.827.828.829.830.831.832.833.834.835.836.837.838.839.840.841.842.843.844.845.846.847.848.849.850.851.852.853.854.855.856.857.858.859.860.861.862.863.864.865.866.867.868.869.870.871.872.873.874.875.876.877.878.879.880.881.882.883.884.885.886.887.888.889.890.891.892.893.894.895.896.897.898.899.900.901.902.903.904.905.906.907.908.909.910.911.912.913.914.915.916.917.918.919.920.921.922.923.924.925.926.927.928.929.930.931.932.933.934.935.936.937.938.939.940.941.942.943.944.945.946.947.948.949.950.951.952.953.954.955.956.957.958.959.960.961.962.963.964.965.966.967.968.969.970.971.972.973.974.975.976.977.978.979.980.981.982.983.984.985.986.987.988.989.990.991.992.993.994.995.996.997.998.999.1000.1001.1002.1003.1004.1005.1006.1007.1008.1009.1010.1011.1012.1013.1014.1015.1016.1017.1018.1019.1020.1021.1022.1023.1024.1025.1026.1027.1028.1029.1030.1031.1032.1033.1034.1035.1036.1037.1038.1039.1040.1041.1042.1043.1044.1045.1046.1047.1048.1049.1050.1051.1052.1053.1054.1055.1056.1057.1058.1059.1060.1061.1062.1063.1064.1065.1066.1067.1068.1069.1070.1071.1072.1073.1074.1075.1076.1077.1078.1079.1080.1081.1082.1083.1084.1085.1086.1087.1088.1089.1090.1091.1092.1093.1094.1095.1096.1097.1098.1099.1100.1101.1102.1103.1104.1105.1106.1107.1108.1109.1110.1111.1112.1113.1114.1115.1116.1117.1118.1119.1120.1121.1122.1123.1124.1125.1126.1127.1128.1129.1130.1131.1132.1133.1134.1135.1136.1137.1138.1139.1140.1141.1142.1143.1144.1145.1146.1147.1148.1149.1150.1151.1152.1153.1154.1155.1156.1157.1158.1159.1160.1161.1162.1163.1164.1165.1166.1167.1168.1169.1170.1171.1172.1173.1174.1175.1176.1177.1178.1179.1180.1181.1182.1183.1184.1185.1186.1187.1188.1189.1190.1191.1192.1193.1194.1195.1196.1197.1198.1199.1200.1201.1202.1203.1204.1205.1206.1207.1208.1209.1210.1211.1212.1213.1214.1215.1216.1217.1218.1219.1220.1221.1222.1223.1224.1225.1226.1227.1228.1229.1230.1231.1232.1233.1234.1235.1236.1237.1238.1239.1240.1241.1242.1243.1244.1245.1246.1247.1248.1249.1250.1251.1252.1253.1254.1255.1256.1257.1258.1259.1260.1261.1262.1263.1264.1265.1266.1267.1268.1269.1270.1271.1272.1273.1274.1275.1276.1277.1278.1279.1280.1281.1282.1283.1284.1285.1286.1287.1288.1289.1290.1291.1292.1293.1294.1295.1296.1297.1298.1299.1300.1301.1302.1303.1304.1305.1306.1307.1308.1309.1310.1311.1312.1313.1314.1315.1316.1317.1318.1319.1320.1321.1322.1323.1324.1325.1326.1327.1328.1329.1330.1331.1332.1333.1334.1335.1336.1337.1338.1339.1340.1341.1342.1343.1344.1345.1346.1347.1348.1349.1350.1351.1352.1353.1354.1355.1356.1357.1358.1359.1360.1361.1362.1363.1364.1365.1366.1367.1368.1369.1370.1371.1372.1373.1374.1375.1376.1377.1378.1379.1380.1381.1382.1383.1384.1385.1386.1387.1388.1389.1390.1391.1392.1393.1394.1395.1396.1397.1398.1399.1400.1401.1402.1403.1404.1405.1406.1407.1408.1409.1410.1411.1412.1413.1414.1415.1416.1417.1418.1419.1420.1421.1422.1423.1424.1425.1426.1427.1428.1429.1430.1431.1432.1433.1434.1435.1436.1437.1438.1439.1440.1441.1442.1443.1444.1445.1446.1447.1448.1449.1450.1451.1452.1453.1454.1455.1456.1457.1458.1459.1460.1461.1462.1463.1464.1465.1466.1467.1468.1469.1470.1471.1472.1473.1474.1475.1476.1477.1478.1479.1480.1481.1482.1483.1484.1485.1486.1487.1488.1489.1490.1491.1492.1493.1494.1495.1496.1497.1498.1499.1500.1501.1502.1503.1504.1505.1506.1507.1508.1509.1510.1511.1512.1513.1514.1515.1516.1517.1518.1519.1520.1521.1522.1523.1524.1525.1526.1527.1528.1529.1530.1531.1532.1533.1534.1535.1536.1537.1538.1539.1540.1541.1542.1543.1544.1545.1546.1547.1548.1549.1550.1551.1552.1553.1554.1555.1556.1557.1558.1559.1560.1561.1562.1563.1564.1565.1566.1567.1568.1569.1570.1571.1572.1573.1574.1575.1576.1577.1578.1579.1580.1581.1582.1583.1584.1585.1586.1587.1588.1589.1590.1591.1592.1593.1594.1595.1596.1597.1598.1599.1600.1601.1602.1603.1604.1605.1606.1607.1608.1609.1610.1611.1612.1613.1614.1615.1616.1617.1618.1619.1620.1621.1622.1623.1624.1625.1626.1627.1628.1629.1630.1631.1632.1633.1634.1635.1636.1637.1638.1639.1640.1641.1642.1643.1644.1645.1646.1647.1648.1649.1650.1651.1652.1653.1654.1655.1656.1657.1658.1659.1660.1661.1662.1663.1664.1665.1666.1667.1668.1669.1670.1671.1672.1673.1674.1675.1676.1677.1678.1679.1680.1681.1682.1683.1684.1685.1686.1687.1688.1689.1690.1691.1692.1693.1694.1695.1696.1697.1698.1699.1700.1701.1702.1703.1704.1705.1706.1707.1708.1709.1710.1711.1712.1713.1714.1715.1716.1717.1718.1719.1720.1721.1722.1723.1724.1725.1726.1727.1728.1729.1730.1731.1732.1733.1734.1735.1736.1737.1738.1739.1740.1741.1742.1743.1744.1745.1746.1747.1748.1749.1750.1751.1752.1753.1754.1755.1756.1757.1758.1759.1760.1761.1762.1763.1764.1765.1766.1767.1768.1769.1770.1771.1772.1773.1774.1775.1776.1777.1778.1779.1780.1781.1782.1783.1784.1785.1786.1787.1788.1789.1790.1791.1792.1793.1794.1795.1796.1797.1798.1799.1800.1801.1802.1803.1804.1805.1806.1807.1808.1809.1810.1811.1812.1813.1814.1815.1816.1817.1818.1819.1820.1821.1822.1823.1824.1825.1826.1827.1828.1829.1830.1831.1832.1833.1834.1835.1836.1837.1838.1839.1840.1841.1842.1843.1844.1845.1846.1847.1848.1849.1850.1851.1852.1853.1854.1855.1856.1857.1858.1859.1860.1861.1862.1863.1864.1865.1866.1867.1868.1869.1870.1871.1872.1873.1874.1875.1876.1877.1878.1879.1880.1881.1882.1883.1884.1885.1886.1887.1888.1889.1890.1891.1892.1893.1894.1895.1896.1897.1898.1899.1900.1901.1902.1903.1904.1905.1906.1907.1908.1909.1910.1911.1912.1913.1914.1915.1916.1917.1918.1919.1920.1921.1922.1923.1924.1925.1926.1927.1928.1929.1930.1931.1932.1933.1934.1935.1936.1937.1938.1939.1940.1941.1942.1943.1944.1945.1946.1947.1948.1949.1950.1951.1952.1953.1954.1955.1956.1957.1958.1959.1960.1961.1962.1963.1964.1965.1966.1967.1968.1969.1970.1971.1972.1973.1974.1975.1976.1977.1978.1979.1980.1981.1982.1983.1984.1985.1986.1987.1988.1989.1990.1991.1992.1993.1994.1995.1996.1997.1998.1999.2000.2001.2002.2003.2004.2005.2006.2007.2008.2009.2010.2011.2012.2013.2014.2015.2016.2017.2018.2019.2020.2021.2022.2023.2024.2025.2026.2027.2028.2029.2030.2031.2032.2033.2034.2035.2036.2037.2038.2039.2040.2041.2042.2043.2044.2045.2046.2047.2048.2049.2050.2051.2052.2053.2054.2055.2056.2057.2058.2059.2060.2061.2062.2063.2064.2065.2066.2067.2068.2069.2070.2071.2072.2073.2074.2075.2076.2077.2078.2079.2080.2081.2082.2083.2084.2085.2086.2087.2088.2089.2090.2091.2092.2093.2094.2095.2096.2097.2098.2099.2100.2101.2102.2103.2104.2105.2106.2107.2108.2109.2110.2111.2112.2113.2114.2115.2116.2117.2118.2119.2120.2121.2122.2123.2124.2125.2126.2127.2128.2129.2130.2131.2132.2133.2134.2135.2136.2137.2138.2139.2140.2141.2142.2143.2144.2145.2146.2147.2148.2149.2150.2151.2152.2153.2154.2155.2156.2157.2158.2159.2160.2161.2162.2163.2164.2165.2166.2167.2168.2169.2170.2171.2172.2173.2174.2175.2176.2177.2178.2179.2180.2181.2182.2183.2184.2185.2186.2187.2188.2189.2190.2191.2192.2193.2194.2195.2196.2197.2198.2199.2200.2201.2202.2203.2204.2205.2206.2207.2208.2209.2210.2211.2212.2213.2214.2215.2216.2217.2218.2219.2220.2221.2222.2223.2224.2225.2226.2227.2228.2229.2230.2231.2232.2233.2234.2235.2236.2237.2238.2239.2240.2241.2242.2243.2244.2245.2246.2247.2248.2249.2250.2251.2252.2253.2254.2255.2256.2257.2258.2259.2260.2261.2262.2263.2264.2265.2266.2267.2268.2269.2270.2271.2272.2273.2274.2275.2276.2277.2278.2279.2280.2281.2282.2283.2284.2285.2286.2287.2288.2289.2290.2291.2292.2293.2294.2295.2296.2297.2298.2299.2300.2301.2302.2303.2304.2305.2306.2307.2308.2309.2310.2311.2312.2313.2314.2315.2316.2317.2318.2319.2320.2321.2322.2323.2324.2325.2326.2327.2328.2329.2330.2331.2332.2333.2334.2335.2336.2337.2338.2339.2340.2341.2342.2343.2344.2345.2346.2347.2348.2349.2350.2351.2352.2353.2354.2355.2356.2357.2358.2359.2360.2361.2362.2363.2364.2365.2366.2367.2368.2369.2370.2371.2372.2373.2374.2375.2376.2377.2378.2379.2380.2381.2382.2383.2384.2385.2386.2387.2388.2389.2390.2391.2392.2393.2394.2395.2396.2397.2398.2399.2400.2401.2402.2403.2404.2405.2406.2407.2408.2409.2410.2411.2412.2413.2414.2415.2416.2417.2418.2419.2420.2421.2422.2423.2424.2425.2426.2427.2428.2429.2430.2431.2432.2433.2434.2435.2436.2437.2438.2439.2440.2441.2442.2443.2444.2445.2446.2447.2448.2449.2450.2451.2452.2453.2454.2455.2456.2457.2458.2459.2460.2461.2462.2463.2464.2465.2466.2467.2468.2469.2470.2471.2472.2473.2474.2475.2476.2477.2478.2479.2480.2481.2482.2483.2484.2485.2486.2487.2488.2489.2490.2491.2492.2493.2494.2495.2496.2497.2498.2499.2500.2501.2502.2503.2504.2505.2506.2507.2508.2509.2510.2511.2512.2513.2514.2515.2516.2517.2518.2519.2520.2521.2522.2523.2524.2525.2526.2527.2528.2529.2530.2531.2532.2533.2534.2535.2536.2537.2538.2539.2540.2541.2542.2543.2544.2545.2546.2547.2548.2549.2550.2551.2552.2553.2554.2555

益田中学校ICT現場見学会（令和2年11月19日（木）～11月20日（金））

現場見学会前の中学生による建設業イメージ班別討議結果一覧（ホワイトボード記載内容）

1クラス目	2クラス目	3クラス目	4クラス目
男性がしてそう	大変そう	大変そう	重労働(1日中)=力仕事
重労働(大変)	楽しそう	道路をつくる	危険
危険	土や木を運んでそう	道とかの危険なところをなおす	男ばかりのイメージ
力仕事	危険	土をかためる	重要
高度な技術	男性多そう	4人中3人が土木という言葉 を知らなかった	看板
難しい	夜遅くまでやってそう	家を建てる	ケガしやすい
人気なさそう	物をつくる	道路におりそう	きつい
大変そう	地味	ショベルカー	汚い
給料が少なそう	力仕事	難しそう	危険
疲れそう	おじちゃんが多い	大変そう	臭い
男の人が多そう	男の人が多い	力が入りそう	時間がかかる
力持ちの人多そう	国道制作	ヘルメットかぶっている	男が多い
休み少なそう	ドローン撮影	危なそう	疲れる
給料が安い	骨組みを立てる	天候に左右されそう	大変
おじちゃん多い	橋脚を立てる	難しい	力仕事
日焼けがすごい	重機が多い	重い	設計
体力仕事	男性が多い	体力	重機
夜中もやる	しんどそう、疲れそう	パソコン	ごつい人が多そう、危ない
コーヒーを配っている	中年が多そう	A1関係	大変
仲が良い	給料が少なそう	地道	物をつくる
けがをする人が出る	橋を作ってる	免許	家
力持ちじゃないとできない	道路を作ってる	人がたくさんいる	道路
山奥でする	ダムを作ってる	危ない	危なそう
コーンがたくさんある	力仕事	汚れる	給料安そう
サルとかイヌがいる	大変…	道路の修理(作る)	暑そう
トンネル	責任感ある仕事	トンネルの修理(橋)	冬寒そう
道路でカメラ立てて、何か しとる人	ヘルメット似合う人多そう	自然災害の備え	朝早そう
道路に異常ないか確認	体力がいりそう	土地の整備	夜遅そう
道路つくる	器用な人が多いイメージ	道路つくる	疲れる
道路をつくる(新しく)	物つくってそう	道路の舗装	ヘルメットかぶっている
道路を直す	危なそう	トンネルをつくる	石、土
トンネルをつくる	ヘルメットつけてそう	橋をつくる	高低差がありそう
工事をしている所に看板	男性ばかり	ダムをつくる	危ない
めんどくさそう	めんどくさそう	撤去(橋とか)	長袖長ズボン
暑そう	危ない	橋の補強	ものをつくる
どんな日でもやりくり	力強い	管理	道路
力作業が多そう	多人数でやる	大変そう	辛そう
服がダサイ	きつい	きつそう	でっかい建物
大変	重機を取り扱う	かっこいい	
重労働		道路を作る人	
休みが少ない		工事する人	
男が多い、女が少ない			
力仕事			
命がけ			