

Optimizing Oil & Gas Facility Design and Operations Course

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Dubai (UAE)

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Optimizing Oil & Gas Facility Design and Operations Course

2022-2023 **1371-1372** **1322-1323** **1402-1403** **1407-1408** **1412-1413** **1417-1418** **1422-1423** **1427-1428** **1432-1433** **1437-1438** **1442-1443** **1447-1448** **1452-1453** **1457-1458** **1462-1463** **1467-1468** **1472-1473** **1477-1478** **1482-1483** **1487-1488** **1492-1493** **1497-1498** **1502-1503** **1507-1508** **1512-1513** **1517-1518** **1522-1523** **1527-1528** **1532-1533** **1537-1538** **1542-1543** **1547-1548** **1552-1553** **1557-1558** **1562-1563** **1567-1568** **1572-1573** **1577-1578** **1582-1583** **1587-1588** **1592-1593** **1597-1598** **1602-1603** **1607-1608** **1612-1613** **1617-1618** **1622-1623** **1627-1628** **1632-1633** **1637-1638** **1642-1643** **1647-1648** **1652-1653** **1657-1658** **1662-1663** **1667-1668** **1672-1673** **1677-1678** **1682-1683** **1687-1688** **1692-1693** **1697-1698** **1702-1703** **1707-1708** **1712-1713** **1717-1718** **1722-1723** **1727-1728** **1732-1733** **1737-1738** 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**2097-2098** **2102-2103** **2107-2108** **2112-2113** **2117-2118** **2122-2123** **2127-2128** **2132-2133** **2137-2138** **2142-2143** **2147-2148** **2152-2153** **2157-2158** **2162-2163** **2167-2168** **2172-2173** **2177-2178** **2182-2183** **2187-2188** **2192-2193** **2197-2198** **2202-2203** **2207-2208** **2212-2213** **2217-2218** **2222-2223** **2227-2228** **2232-2233** **2237-2238** **2242-2243** **2247-2248** **2252-2253** **2257-2258** **2262-2263** **2267-2268** **2272-2273** **2277-2278** **2282-2283** **2287-2288** **2292-2293** **2297-2298** **2302-2303** **2307-2308** **2312-2313** **2317-2318** **2322-2323** **2327-2328** **2332-2333** **2337-2338** **2342-2343** **2347-2348** **2352-2353** **2357-2358** **2362-2363** **2367-2368** **2372-2373** **2377-2378** **2382-2383** **2387-2388** **2392-2393** **2397-2398** **2402-2403** **2407-2408** **2412-2413** **2417-2418** **2422-2423** **2427-2428** **2432-2433** **2437-2438** **2442-2443** **2447-2448** 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**4227-4228** **4232-4233** **4237-4238** **4242-4243** **4247-4248** **4252-4253** **4257-4258** **4262-4263** **4267-4268** **4272-4273** **4277-4278** **4282-4283** **4287-4288** **4292-4293** **4297-4298** **4302-4303** **4307-4308** **4312-4313** **4317-4318** **4322-4323** **4327-4328** **4332-4333** **4337-4338** **4342-4343** **4347-4348** **4352-4353** **4357-4358** **4362-4363** **4367-4368** **4372-4373** **4377-4378** **4382-4383** **4387-4388** **4392-4393** **4397-4398** **4402-4403** **4407-4408** **4412-4413** **4417-4418** **4422-4423** **4427-4428** **4432-4433** **4437-4438** **4442-4443** **4447-4448** **4452-4453** **4457-4458** **4462-4463** **4467-4468** **4472-4473** **4477-4478** **4482-4483** **4487-4488** **4492-4493** **4497-4498** **4502-4503** **4507-4508** **4512-4513** **4517-4518** **4522-4523** **4527-4528** **4532-4533** **4537-4538** **4542-4543** **4547-4548** **4552-4553** **4557-4558** **4562-4563** **4567-4568** **4572-4573** **4577-4578** 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Day 2 - Equipment & Process Optimization

- Flowlines, pipeline systems, and design considerations
- Crude separation and treatment technologies
- Gas handling, compression, and conditioning
- Oil pumping systems and transportation operations

Day 3 - Water Management Systems

- Seawater treatment and injection processes
- Produced water handling and reinjection techniques
- Pump selection criteria and performance optimization
- Water quality control for facility reliability

Day 4 - Midstream Operations

- Transportation infrastructure and pipeline logistics
- Pump and compressor station design and operation
- Storage facilities for oil, gas, and LNG components
- Monitoring, control systems, and digital operations

Day 5 - Gas Operations & Economic Evaluation

- Gas processing and treatment technologies
- LNG facility design and operational considerations
- Technical and economic analysis for facility design options
- Optimization strategies, best practices, and industry case studies

Individual Impact

Participants will gain:

- The ability to identify cost-effective improvements in facility design and operations
- Enhanced capability in optimizing production output and operational efficiency
- Stronger technical judgment when evaluating facility upgrades and investments
- Broader insight into industry best practices and modern technologies

Organizational Impact

Organizations will benefit through:

- Improved facility performance and reduced operational costs
- Enhanced reliability, safety, and optimization of energy assets
- Better investment decisions supported by thorough economic evaluation
- Stronger competency in planning and managing facility life cycles

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Training Methodology

The program uses an applied, engineering-focused approach built on:

- Real-world case studies from upstream, midstream, and downstream operations
- Hands-on exercises in process optimization and equipment selection
- Technical discussions and problem-solving workshops
- Industry benchmarking and scenario-based learning
- Interactive sessions with seasoned oil and gas professionals

Beyond the Course

Participants will return prepared to:

- Lead facility design and optimization initiatives
- Apply integrated engineering and economic evaluation methods
- Implement modern technologies to enhance facility performance
- Support strategic decisions that improve operational outcomes and cost efficiency

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