

Higher Nitec in Marine & Offshore Engineering

HF3MR

Higher Nitec in Marine & Offshore Engineering

Specialisation / Option: Engineering Design

3 month IA Duration

MR43007FPE-1

1. Attend internal safety programme.
2. Carry out good housekeeping and workplace safety practices.
3. Perform safety checks on materials and tools.
4. Perform hazards identification at workplace.
5. Perform risk evaluation at workplace.
6. Perform the selection of materials and tools.
7. Produce sub-system drawings.
8. Produce layout drawings.
9. Produce structural / outfitting / piping / electrical drawings.
10. Compile project delivery documentation package

Sub-total

HF3MR

Higher Nitec in Marine & Offshore Engineering

Specialisation / Option: Marine Engineering System

3 month IA Duration

MR43007FPE-2

1. Attend internal safety programme.
2. Carry out good housekeeping and workplace safety practices.
3. Perform safety checks on materials and tools.
4. Perform hazards identification at workplace.
5. Perform risk evaluation at workplace.
6. Perform dimensional measurements of engineering components.
7. Perform maintenance of marine engineering systems.
8. Identify faults in marine engineering systems.
9. Perform testing on marine engineering components.
10. Compile engine service report / maintenance checklist.

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Higher Nitec in Marine & Offshore Engineering

Specialisation / Option: Fabrication Technology

3 month IA Duration

MR43007FPE-3

1. Attend internal safety programme.
2. Carry out good housekeeping and workplace safety practices.
3. Perform safety checks on materials and tools.
4. Perform hazards identification at workplace.
5. Perform risk evaluation at workplace.
6. Interpret list of material take-off.
7. Compile the Material Verification Report (MVR)
8. Perform fitting-up of marine steel profiles / pipe fittings.
9. Perform welding of marine steel profiles / pipe fittings.
10. Perform testing of marine steel profiles / pipe fittings.

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Higher Nitec in Marine & Offshore Engineering

Specialisation / Option: Project Planning and Documentation

3 month IA Duration

MR43007FPE-4

1. Attend internal safety programme.
2. Carry out good housekeeping and workplace safety practices.
3. Perform safety checks on materials and tools.
4. Perform hazards identification at workplace.
5. Perform risk evaluation at workplace.
6. Interpret technical requirement (e.g. drawings, plots, layout, checklist, datasheet, manual, purchase requisition, quotation etc.)
7. Coordinate between technical stakeholders.
8. Draft technical emails.
9. Identify the resources required for planning purposes.
10. Perform record keeping of engineering documents

HF3MR, HF2MR, HFXMR

Higher Nitec in Marine & Offshore Engineering

Specialisation / Option: Engineering Design

6 month IA Duration

MR53006FPE-1

MR53007FPE-1

1. Attend internal safety programme.
2. Carry out good housekeeping and workplace safety practices.
3. Perform safety checks on materials, tools and equipment.
4. Perform risk assessment at workplace.
5. Perform risk control at workplace.
6. Perform the selection of materials / tools / equipment.
7. Produce system drawings.
8. Produce arrangement drawings.
9. Produce detailed production drawings.
10. Produce documentation for project delivery.

HF3MR, HF2MR, HFXMR

Higher Nitec in Marine & Offshore Engineering

Specialisation / Option: Marine Engineering System

6 month IA Duration

MR53006FPE-2

MR53007FPE-2

1. Attend internal safety programme.
2. Carry out good housekeeping and workplace safety practices.
3. Perform safety checks on materials, tools and equipment.
4. Perform risk assessment at workplace.
5. Perform risk control at workplace.
6. Determine conditions of engineering components based on dimensional measurements and wear limits.
7. Perform overhaul of marine engineering systems.
8. Perform troubleshooting of marine engineering systems.
9. Analyse testing results of marine engineering systems.
10. Produce documentation for project delivery.
11. Perform predictive maintenance analytics.

HF3MR, HF2MR, HFXMR

Higher Nitec in Marine & Offshore Engineering

Specialisation / Option: Fabrication Technology

6 month IA Duration

MR53006FPE-3

MR53007FPE-3

1. Attend internal safety programme.
2. Carry out good housekeeping and workplace safety practices.
3. Perform safety checks on materials, tools and equipment.
4. Perform risk assessment at workplace.
5. Perform risk control at workplace.
6. Produce list of material take-off.
7. Perform fitting-up of marine structures / outfitting / piping.
8. Perform welding of marine structures / outfitting / piping.
9. Analyse the testing results of marine structures / outfitting / piping.
10. Produce documentation for project delivery.
11. Perform fabrication of spare parts using additive manufacturing system.

HF3MR, HF2MR, HFXMR

Higher Nitec in Marine & Offshore Engineering

Specialisation / Option: Project Planning and Documentation

6 month IA Duration

MR53006FPE-4

MR53007FPE-4

1. Attend internal safety programme.
2. Carry out good housekeeping and workplace safety practices.
3. Perform safety checks on materials, tools and equipment.
4. Perform risk assessment at workplace.
5. Perform risk control at workplace.
6. Review and evaluate technical requirements (e.g. drawings, plots, layout, checklist, datasheet, manual, purchase requisition, quotation etc.)
7. Perform coordination between technical and non-technical stakeholders.
8. Draft technical reports.
9. Perform the planning of resources.
10. Perform the record keeping of engineering documents.
11. Perform the applications of environmental risk management strategies.