KOMPETENSI INTI DAN KOMPETENSI DASAR

SEKOLAH MENENGAH KEJURUAN/MADRASAH ALIYAH KEJURUAN

Bidang Keahlian : Kemaritiman

Program Keahlian : Pelayaran Kapal Niaga

Kompetensi Keahlian : Nautika Kapal Niaga ( NKN )

Tujuan kurikulum mencakup empat aspek kompetensi, yaitu (1) aspek kompetensi sikap spiritual, (2) sikap sosial, (3) pengetahuan, dan (4) keterampilan. Aspek-aspek kompetensi tersebut dicapai melalui proses pembelajaran intrakurikuler, kokurikuler, dan ekstrakurikuler.

Rumusan kompetensi sikap spiritual yaitu, “Menghayati dan mengamalkan ajaran agama yang dianutnya”. Sedangkan rumusan kompetensi sikap sosial yaitu, “Menghayati dan mengamalkan perilaku jujur, disiplin, santun, peduli (gotong royong, kerja sama, toleran, damai), bertanggung-jawab, responsif, dan proaktif melalui keteladanan, pemberian nasihat, penguatan, pembiasaan, dan pengkondisian secara berkesinambungan serta menunjukkan sikap sebagai bagian dari solusi atas berbagai permasalahan dalam berinteraksi secara efektif dengan lingkungan sosial dan alam serta dalam menempatkan diri sebagai cerminan bangsa dalam pergaulan dunia”. Kedua kompetensi tersebut dicapai melalui pembelajaran tidak langsung (*indirect teaching*) yaitu keteladanan, pembiasaan, dan budaya sekolah, dengan memperhatikan karakteristik mata pelajaran serta kebutuhan dan kondisi peserta didik.

Penumbuhan dan pengembangan kompetensi sikap dilakukan sepanjang proses pembelajaran berlangsung, dan dapat digunakan sebagai pertimbangan guru dalam mengembangkan karakter peserta didik lebih lanjut.

| KOMPETENSI INTI 3  (PENGETAHUAN) | KOMPETENSI INTI 4  (KETERAMPILAN) |
| --- | --- |
| 1. Memahami, menerapkan, menganalisis, dan mengevaluasi tentang pengetahuan faktual, konseptual, operasional dasar, dan metakognitif sesuai dengan bidang dan lingkup kerja Nautika Kapal Niaga ( NKN ) pada tingkat teknis, spesifik, detil, dan kompleks, berkenaan dengan ilmu pengetahuan, teknologi, seni, budaya, dan humaniora dalam konteks pengembangan potensi diri sebagai bagian dari keluarga, sekolah, dunia kerja, warga masyarakat nasional, regional, dan internasional. | 1. Melaksanakan tugas spesifik dengan menggunakan alat, informasi, dan prosedur kerja yang lazim dilakukan serta memecahkan masalah sesuai dengan bidang kerja Nautika Kapal Niaga ( NKN ). Menampilkan kinerja di bawah bimbingan dengan mutu dan kuantitas yang terukur sesuai dengan standar kompetensi kerja.   Menunjukkan keterampilan menalar, mengolah, dan menyaji secara efektif, kreatif, produktif, kritis, mandiri, kolaboratif, komunikatif, dan solutif dalam ranah abstrak terkait dengan pengembangan dari yang dipelajarinya di sekolah, serta mampu melaksanakan tugas spesifik di bawah pengawasan langsung.  Menunjukkan keterampilan mempersepsi, kesiapan, meniru, membiasakan, gerak mahir, menjadikan gerak alami dalam ranah konkret terkait dengan pengembangan dari yang dipelajarinya di sekolah, serta mampu melaksanakan tugas spesifik di bawah pengawasan langsung. |

1. Mata Pelajaran : Prosedur Darurat dan SAR *(Emergency Procedure and SAR )*

| KOMPETENSI DASAR | KOMPETENSI DASAR | WAKTU | UNIT KOMPETENSI | SKEMA SERTIFIKASI |
| --- | --- | --- | --- | --- |
| * 1. Describe contingency plans for response to emergencies | 1. Demonstrate contingency plans for response to emergencies | 6 | IMC 7.03  1.5.1  Contingency plans for response to emergencies | Peserta didik menempuh seluruh kompetensi dan mengikuti ujian keahlian pelaut serta dinyatakan LULUS maka Peserta didik akan mendapatkan sertifikat kompetensi ANT IV (Ahli Nautika Tingkat IV) yang dikeluarkan oleh Direktorat Jenderal Perhubungan Laut. |
| * 1. Describe precautions for protection and safety of passengers in emergency situations | 1. Demonstrate precautions for protection and safety of passengers in emergency situations | 6 | IMC 7.03  1.5.1  Precautions for protection and safety of passengers in emergency situations |
| * 1. Explain precautions when beaching a vessel | 1. Apply precautions when beaching a vessel | 6 | IMC 7.03  1.5.2  Precautions when beaching a vessel |
| * 1. Understand actions on stranding/grounding | 1. Demonstrate actions on stranding/grounding | 6 | IMC 7.03  1.5.2  Actions on stranding/grounding |
| * 1. Describe initial assessment of damage and damage control | 1. Demonstrate initial assessment of damage and damage control | 6 | IMC 7.03  1.5.2  Initial assessment of damage and damage control |
| * 1. Apply actions following a collision | * 1. Demonstrate actions following a collision | 6 | IMC 7.03  1.5.2  Actions following a collision |
| * 1. Explain means of limiting damage and salving ship following fire or explosion | * 1. Apply means of limiting damage and salving ship following fire or explosion | 6 | IMC 7.03  1.5.2  Means of limiting damage and salving ship following fire or explosion |
| * 1. Apply procedures for abandoning ship | * 1. Use procedures for abandoning ship | 6 | IMC 7.03  1.5.2  Procedures for abandoning ship |
| * 1. Describe use of auxiliary steering Gear and the rigging and use of  jury steering arrangements | * 1. Demonstrate use of auxiliary steering gear and the rigging and use of  jury steering arrangements | 6 | IMC 7.03  1.5.2  Use of auxiliary Steering Gear and the Rigging and Use of  Jury Steering Arrangements |
| * 1. Explain arrangements for towing and being towed | * 1. Demonstrate arrangements for towing and being towed | 6 | IMC 7.03  1.5.2  Arrangements for towing and being towed |
| * 1. Describe rescuing persons from the sea, assisting a ship in distress and port emergencies | * 1. Demonstrate rescuing persons from the sea, assisting a ship in distress and port emergencies | 6 | IMC 7.03  1.5.3  rescuing persons from the sea, assisting a ship in distress and port emergencies |
| * 1. Explain Search and rescue | * 1. Demonstrate Search and rescue | 6 | IMC 7.03  1.5.3  Search and rescue |
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1. Mata Pelajaran : Hukum Maritim *( Maritime Law )*

| KOMPETENSI DASAR | KOMPETENSI DASAR | WAKTU | UNIT KOMPETENSI | SKEMA SERTIFIKASI |
| --- | --- | --- | --- | --- |
| * 1. Describes that maritime law | 1. Apply that maritime law | 2 | IMC 7.03  3.6.1  maritime law | Peserta didik menempuh seluruh kompetensi dan mengikuti ujian keahlian pelaut serta dinyatakan LULUS maka Peserta didik akan mendapatkan sertifikat kompetensi ANT IV (Ahli Nautika Tingkat IV) yang dikeluarkan oleh Direktorat Jenderal Perhubungan Laut. |
| * 1. Describes conventions on thelaw of the sea | 1. Apply conventions on the law of the sea | 2 | IMC 7.03  3.6.1(1-3)  Conventions on the Law of the Sea |
| * 1. Understand territorial sea and the contiguous zone | 1. Apply territorial sea and the contiguous zone | 6 | IMC 7.03  3.6.1  Territorial Sea and the Contiguous Zone |
| * 1. Describe International straits | 1. Apply International straits | 6 | IMC 7.03  3.6.1  International Straits |
| * 1. Describe high seas | 1. Apply high seas | 4 | IMC 7.03  3.6.1  High Seas |
| * 1. States the protection and preservation of the Marine environment | 1. Apply protection and preservation of the marine environment | 4 | IMC 7.03  3.6.1  protection and Preservation of the Marine Environment |
| * 1. Understand safety, International Convention on load lines, 1966 (LL 1966) | 1. Apply safety, International convention on load lines, 1966 (LL 1966) | 6 | IMC 7.03  3.6.1  Safety, International Convention on Load Lines, 1966 (LL 1966) |
| * 1. Apply International convention for the safety of life at sea, 1974 as amended (SOLAS) | 1. Analyze International convention for the safety of life at sea, 1974 as amended (SOLAS) | 6 | IMC 7.03  3.6.1  International Convention for the Safety of Life at Sea, 1974 as amended (SOLAS) |
| * 1. Apply SOLAS, subdivision and stability, machinery and electrical installation | 1. Analyze SOLAS, subdivision and stability, machinery and electrical installation | 4 | IMC 7.03  3.6.1  SOLAS, Subdivision and Stability, Machinery and Electrical Installation |
| * 1. Apply SOLAS, Fire Protection, Fire Detection and Fire Extinction | 1. Analyze SOLAS, Fire Protection, Fire Detection and Fire Extinction | 4 | IMC 7.03  3.6.1  SOLAS, Fire Protection, Fire |
| * 1. Apply SOLAS, Life-Saving Appliances and Arrangements | 1. Analyze SOLAS, Life-Saving Appliances and Arrangements | 6 | IMC 7.03  3.6.1  SOLAS, Life-Saving Appliances and Arrangements |
| * 1. Apply SOLAS, Radiotelegraphy and Radiotelephony | 1. Analyze SOLAS, Radiotelegraphy and Radiotelephony | 4 | IMC 7.03  3.6.1  SOLAS, Radiotelegraphy and Radiotelephony |
| * 1. Apply The International Safety Management | 1. Implement The International Safety Management(ISM) Code | 4 | IMC 7.03  3.6.1  The International Safety Management(ISM) Code |
| * 1. Apply International Convention on Standards of Training, Certification and Watch keeping for Seafarers, 2010 (STCW) | 1. Implement International Convention on Standards of Training, Certification and Watch keeping for Seafarers, 2010 (STCW) | 6 | IMC 7.03  3.6.1  International Convention on Standards of Training, Certification and Watch keeping for Seafarers, 2010 (STCW |
| * 1. Understand ITU Radio Regulations | 1. Apply ITU Radio Regulations | 4 | IMC 7.03  3.6.1  ITU Radio Regulations |
| * 1. Understand International Convention on Tonnage Measurement of Ships, 1969 | 1. Apply International Convention on Tonnage Measurement of Ships, 1969 | 4 | IMC 7.03  3.6.1  International Convention on Tonnage Measurement of Ships, 1969 |
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1. Mata Pelajaran : Pencegahan Pencemaran Lingkungan Laut

*( Marine Pollution of Prevention Include Environment Awareness )*

| KOMPETENSI DASAR | KOMPETENSI DASAR | WAKTU | UNIT KOMPETENSI | SKEMA SERTIFIKASI |
| --- | --- | --- | --- | --- |
| 1. Explain defines for the purpose of MARPOL 73/78 | 1. Apply for the purpose of MARPOL 73/78 | 38 | IMC 7.03  3.1.1  MARPOL 73/78 | Peserta didik menempuh seluruh kompetensi dan mengikuti ujian keahlian pelaut serta dinyatakan LULUS maka Peserta didik akan mendapatkan sertifikat kompetensi ANT IV (Ahli Nautika Tingkat IV) yang dikeluarkan oleh Direktorat Jenderal Perhubungan Laut. |
| Explain Convention and legislations adopted by various countries | * 1. Apply Convention and legislations adopted by various countries | 6 | IMC 7.03  3.1.1  Convention and legislations adopted by various countries |
| Explain Control of discharge of oil | 4.3 Apply Control of discharge of oil | 6 | IMC 7.03  3.1.2  Control of discharge of oil |
| * 1. Explain Oil Record Book (Part I - Machinery space operations) and Part II - Cargo/Ballast operations) | 4.4 Use Oil Record Book (Part I - Machinery space operations) and Part II - Cargo/Ballast operations) | 4 | IMC 7.03  3.1.2  Oil Record Book (Part I - Machinery space operations) and Part II - Cargo/Ballast operations) |
| Explain Shipboard Oil Pollution Emergency Plan (SOPEP) including Shipboard Marine Pollution Emergency Plans (SMPEP) for Oil and/or Noxious Liquid Substances and Vessel Response Plan (VRP) | * 1. Apply Shipboard Oil Pollution Emergency Plan (SOPEP) including Shipboard Marine Pollution Emergency Plans (SMPEP) for Oil and/or Noxious Liquid Substances and Vessel Response Plan (VRP) | 4 | IMC 7.03  3.1.2  Shipboard Oil Pollution Emergency Plan (SOPEP) including Shipboard Marine Pollution Emergency Plans (SMPEP) for Oil and/or Noxious Liquid Substances and Vessel Response Plan (VRP) |
| Explain Operating procedures of anti-pollution equipment, sewage plant, incinerator, comminutor, ballast water treatment plant | * 1. Apply Operating procedures of anti-pollution equipment, sewage plant, incinerator, comminutor, ballast water treatment plant | 4 | IMC 7.03  3.1.1  Operating procedures of anti-pollution equipment, sewage plant, incinerator, comminutor, ballast water treatment plant |
| * 1. Explain Volatile Organic Compound (VOC) Management Plan, Garbage Management System, Anti-fouling systems, Ballast Water Management and their discharge criteria | * 1. Apply Volatile Organic Compound (VOC) Management Plan, Garbage Management System, Anti-fouling systems, Ballast Water Management and their discharge criteria | 6 | IMC 7.03  3.1.2  Volatile Organic Compound (VOC) Management Plan, Garbage Management System, Anti-fouling systems, Ballast Water Management and their discharge criteria |
| Explain Proactive measures to protect the marine environment | * 1. Apply Proactive measures to protect the marine environment | 4 | IMC 7.03  3.1.3  Proactive measures to protect the marine environment |
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1. Mata Pelajaran : Bahasa Inggris Maritim *( Maritime English )*

| KOMPETENSI DASAR | KOMPETENSI DASAR | WAKTU | UNIT KOMPETENSI | SKEMA SERTIFIKASI |
| --- | --- | --- | --- | --- |
| 1. Understand identifies and namesof the main parts of a passenger vessel in  speech  and  writing | 1. Apply identifies and names of the main parts of a passenger vesselin speech  and  writing. | 20 | IMC 7.03  1.7.1  1.7.2  names of the main parts of a passenger vesselin speech  and  writing | Peserta didik menempuh seluruh kompetensi dan mengikuti ujian keahlian pelaut serta dinyatakan LULUS maka Peserta didik akan mendapatkan sertifikat kompetensi ANT IV (Ahli Nautika Tingkat IV) yang dikeluarkan oleh Direktorat Jenderal Perhubungan Laut. |
| 1. Understand asks  for  and  givespersonal  data | 1. Apply ask  for  and  gives  personal  data | 20 | IMC 7.03  1.7.1  1.7.2  ask  for  and  gives  personal  data |
| 1. Describes crew roles and routines on boardpassenger vessels | 1. Apply crew roles and routines on board passenger vessels | 16 | IMC 7.03  1.7.1  1.7.2  crew roles and routines on board passenger vessels |
| 1. Describes job responsibilities on board | 1. Apply job responsibilities on board | 24 | IMC 7.03  1.7.1  1.7.2  job responsibilities on board |
| * 1. Understand considers instructions  on board  ship | 1. Apply considers instructions  on board  ship | 16 | IMC 7.03  1.7.1  1.7.2  considers instructions  on board  ship |
| * 1. Understand trainees will role‐play the various drillson  board  ships | 1. Apply trainees will role‐play the various drillson  board  ships | 16 | IMC 7.03  1.7.1  1.7.2  trainees will role‐play the various drillson  board  ships |
| * 1. Understand discusses  human  behaviour  in emergencies | 1. Apply discusses  human  behaviour  in emergencies | 16 | IMC 7.03  1.7.1  1.7.2  discusses  human  behaviour  in emergencies |
| * 1. Apply practises  the  communication  related  to crowd  and  crisis management  in  an emergencysituation | 1. Demonstrate practises  the communication  related to crowd  and  crisis  management  inan  emergencysituation | 16 | IMC 7.03  1.7.1  1.7.2  practises  the  communication  related to crowd  and  crisis  management  inan  emergencysituation |
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1. Mata Pelajaran : Konstruksi dan Stabilitas *( Ship Construction and Stability )*

| KOMPETENSI DASAR | KOMPETENSI DASAR | WAKTU | UNIT KOMPETENSI | SKEMA SERTIFIKASI |
| --- | --- | --- | --- | --- |
| 1. Understand Ship dimensions and form | 1. Illustrates Perform ship dimensions and form | 20 | IMC 7.03  3.2.2.1  ship dimensions and form | Peserta didik menempuh seluruh kompetensi dan mengikuti ujian keahlian pelaut serta dinyatakan LULUS maka Peserta didik akan mendapatkan sertifikat kompetensi ANT IV (Ahli Nautika Tingkat IV) yang dikeluarkan oleh Direktorat Jenderal Perhubungan Laut. |
| 1. Describe Ship Stresses | 1. Apply Ship Stresses | 10 | IMC 7.03  3.2.2.2  Ship Stresses |
| 1. Describe Hull structure | 1. Identifies of hull structure | 20 | IMC 7.03  3.2.2.3  hull structure |
| 1. Describe Bow and stern regions | 1. Identifies Bow and stern regions | 10 | IMC 7.03  3.2.2.4  Bow and stern |
| 1. Describe Fittings | 1. Identifies of fittings | 15 | IMC 7.03  3.2.2.5  fittings |
| 1. Describe Explain Rudders and propellers | 1. Identifies Rudders and propellers | 20 | IMC 7.03  3.2.2.6  Rudders and propellers |
| 1. Describe Explain Load lines and draught marks | 1. Show of Load lines and draught marks | 10 | IMC 7.03  3.2.2.7  Load lines and draught marks |
| 1. Explain defines Displacement | 1. Apply of displacement | 5 | IMC 7.03  3.2.1.1  displacement |
| 1. Describes Buoyancy | 1. Apply of buoyancy | 5 | IMC 7.03  3.2.1.2 |
| 1. Understand Fresh water allowance | 1. Apply fresh water allowance | 5 | IMC 7.03  3.2.1.3  fresh water allowance |
| 1. States thatStatical stability | 1. Apply Statical stability | 5 | IMC 7.03  3.2.1.4  Statical stability |
| 1. States that Initial stability | 1. Apply Initial stability | 5 | IMC 7.03  3.2.1.5  Initial stability |
| 1. States that Angle of loll | 1. Show that Angle of loll | 5 | IMC 7.03  3.2.1.6  Angle of loll |
| 1. States that Curves of statical stability | 1. Show of curves of statical stability | 5 | IMC 7.03  3.2.1.7  curves of statical stability |
| 1. States that Movement of centre of gravity | 1. Calculate movement of centre of gravity | 5 | IMC 7.03  3.2.1.8  movement of centre of gravity |
| 1. Describes List and Its Correction | 1. Demonstrate on List and Its Correction | 10 | IMC 7.03  3.2.1.9  List and Its Correction |
| 1. States that Effect of slack tanks | 1. Apply effect of slack tanks | 5 | IMC 7.03  3.2.1.10  effect of slack tanks |
| 1. Explain Trimand draft calculation using trim table | 1. Apply Trim and draft calculation using trim table | 10 | IMC 7.03  3.2.1.11  Trim and draft calculation |
| 1. States that to be taken in the event of partial Loss of intact buoyancy | 1. Action to be taken in the event of partial Loss of intact buoyancy | 5 | IMC 7.03  3.2.1.12  partial Loss of intact buoyancy |
| 1. Explain Stress tables and stress calculating equipment (loadicator) | 1. Show of Stress tables and stress calculating equipment (loadicator) | 5 | IMC 7.03  3.2.1.13  Stress tables and stress calculating equipment (loadicator) |
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